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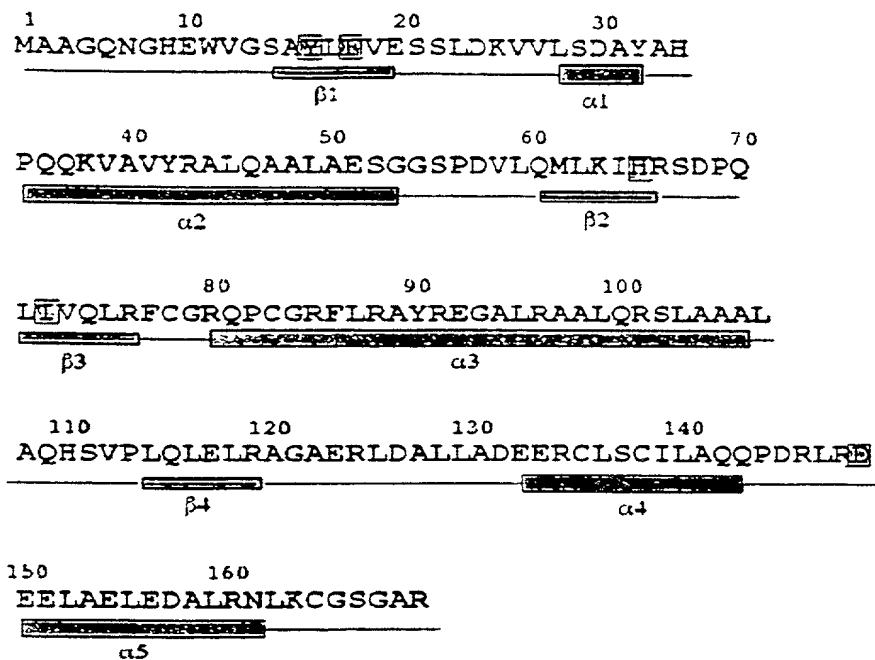


FIG. 1

FIG. 2 (1 of 35)

Atom									
Type	Residue			X	Y	Z			
ATOM	1	CA	MET	1	-24.866	15.535	-19.264	1.00	15.51
ATOM	2	HA	MET	1	-25.390	14.693	-19.279	1.00	15.31
ATOM	3	CB	MET	1	-25.849	16.777	-18.999	1.00	15.70
ATOM	4	HB1	MET	1	-26.446	16.943	-19.883	1.00	15.58
ATOM	5	HB2	MET	1	-25.298	17.678	-18.764	1.00	15.98
ATOM	6	CG	MET	1	-26.765	16.422	-17.827	1.00	15.88
ATOM	7	HG1	MET	1	-26.172	16.103	-16.986	1.00	16.14
ATOM	8	HG2	MET	1	-27.432	15.624	-18.121	1.00	15.63
ATOM	9	SD	MET	1	-27.737	17.876	-17.362	1.00	16.37
ATOM	10	CE	MET	1	-28.779	17.948	-18.839	1.00	16.46
ATOM	11	HE1	MET	1	-28.342	17.340	-19.619	1.00	16.46
ATOM	12	HE2	MET	1	-28.851	18.969	-19.180	1.00	16.49
ATOM	13	HE3	MET	1	-29.765	17.580	-18.600	1.00	16.65
ATOM	14	C	MET	1	-24.152	15.871	-20.591	1.00	15.23
ATOM	15	O	MET	1	-23.015	16.304	-20.628	1.00	15.46
ATOM	16	N	MET	1	-23.891	15.675	-18.134	1.00	16.16
ATOM	17	HT1	MET	1	-23.122	15.001	-18.319	1.00	16.50
ATOM	18	HT2	MET	1	-24.371	15.419	-17.249	1.00	16.33
ATOM	19	HT3	MET	1	-23.495	16.634	-18.051	1.00	16.24
ATOM	20	N	ALA	2	-24.826	15.613	-21.680	1.00	14.89
ATOM	21	HN	ALA	2	-25.749	15.283	-21.617	1.00	14.81
ATOM	22	CA	ALA	2	-24.206	15.846	-23.013	1.00	14.80
ATOM	23	HA	ALA	2	-23.256	15.339	-23.085	1.00	15.17
ATOM	24	CB	ALA	2	-25.199	15.268	-24.026	1.00	15.06
ATOM	25	HB1	ALA	2	-25.968	15.998	-24.234	1.00	15.17
ATOM	26	HB2	ALA	2	-25.650	14.375	-23.618	1.00	15.16
ATOM	27	HB3	ALA	2	-24.680	15.021	-24.941	1.00	15.20
ATOM	28	C	ALA	2	-24.035	17.355	-23.207	1.00	14.21
ATOM	29	O	ALA	2	-24.023	18.097	-22.248	1.00	13.70
ATOM	30	N	ALA	3	-23.920	17.811	-24.431	1.00	14.43
ATOM	31	HN	ALA	3	-23.947	17.183	-25.183	1.00	14.93
ATOM	32	CA	ALA	3	-23.761	19.283	-24.704	1.00	14.09
ATOM	33	HA	ALA	3	-23.704	19.448	-25.769	1.00	14.05
ATOM	34	CB	ALA	3	-25.032	19.954	-24.154	1.00	14.73
ATOM	35	HB1	ALA	3	-25.766	19.196	-23.921	1.00	15.01
ATOM	36	HB2	ALA	3	-25.435	20.624	-24.899	1.00	14.84
ATOM	37	HB3	ALA	3	-24.797	20.512	-23.260	1.00	14.95
ATOM	38	C	ALA	3	-22.497	19.847	-24.031	1.00	13.47
ATOM	39	O	ALA	3	-21.504	20.099	-24.689	1.00	13.42
ATOM	40	N	GLY	4	-22.521	20.052	-22.737	1.00	13.16
ATOM	41	HN	GLY	4	-23.326	19.842	-22.224	1.00	13.34
ATOM	42	CA	GLY	4	-21.324	20.601	-22.038	1.00	12.72
ATOM	43	HA1	GLY	4	-21.640	21.265	-21.248	1.00	13.03
ATOM	44	HA2	GLY	4	-20.715	21.145	-22.745	1.00	12.88
ATOM	45	C	GLY	4	-20.510	19.454	-21.438	1.00	11.83
ATOM	46	O	GLY	4	-20.666	18.306	-21.810	1.00	11.80
ATOM	47	N	GLN	5	-19.639	19.764	-20.517	1.00	11.27
ATOM	48	HN	GLN	5	-19.534	20.700	-20.246	1.00	11.46
ATOM	49	CA	GLN	5	-18.796	18.703	-19.882	1.00	10.54
ATOM	50	HA	GLN	5	-18.209	18.192	-20.629	1.00	10.74
ATOM	51	CB	GLN	5	-17.867	19.456	-18.918	1.00	10.66
ATOM	52	HB1	GLN	5	-17.255	20.149	-19.477	1.00	10.48
ATOM	53	HB2	GLN	5	-17.231	18.747	-18.408	1.00	10.80
ATOM	54	CG	GLN	5	-18.696	20.230	-17.882	1.00	11.16
ATOM	55	HG1	GLN	5	-18.846	19.612	-17.008	1.00	11.36
ATOM	56	HG2	GLN	5	-19.655	20.493	-18.302	1.00	11.17
ATOM	57	CD	GLN	5	-17.944	21.499	-17.481	1.00	11.68
ATOM	58	OE1	GLN	5	-17.092	21.465	-16.617	1.00	11.76
ATOM	59	NE2	GLN	5	-18.222	22.627	-19.079	1.00	12.23
ATOM	60	HE21	GLN	5	-18.910	22.655	-18.776	1.00	12.30
ATOM	61	HE22	GLN	5	-17.740	23.443	-17.333	1.00	12.69
ATOM	62	C	GLN	5	-19.665	17.702	-19.111	1.00	9.75
ATOM	63	O	GLN	5	-20.496	18.080	-18.306	1.00	9.62
ATOM	64	N	ASN	6	-19.460	16.426	-19.339	1.00	9.41

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ATOM	65	HN	ASN	6	-18.775	16.151	-19.981	1.00	9.70	SEG1
ATOM	66	CA	ASN	6	-20.257	15.396	-18.600	1.00	8.79	SEG1
ATOM	67	HA	ASN	6	-21.287	15.710	-18.535	1.00	9.04	SEG1
ATOM	68	CB	ASN	6	-20.161	14.093	-19.418	1.00	9.02	SEG1
ATOM	69	HB1	ASN	6	-20.676	14.225	-20.357	1.00	8.79	SEG1
ATOM	70	HB2	ASN	6	-20.631	13.293	-18.867	1.00	9.43	SEG1
ATOM	71	CG	ASN	6	-18.700	13.720	-19.695	1.00	9.37	SEG1
ATOM	72	OD1	ASN	6	-17.847	13.872	-18.845	1.00	9.72	SEG1
ATOM	73	ND2	ASN	6	-18.379	13.226	-20.863	1.00	9.56	SEG1
ATOM	74	HD21	ASN	6	-19.069	13.099	-21.547	1.00	9.44	SEG1
ATOM	75	HD22	ASN	6	-17.450	12.985	-21.056	1.00	9.96	SEG1
ATOM	76	C	ASN	6	-19.675	15.229	-17.193	1.00	8.00	SEG1
ATOM	77	O	ASN	6	-18.499	15.450	-16.975	1.00	7.88	SEG1
ATOM	78	N	GLY	7	-20.492	14.873	-16.233	1.00	7.69	SEG1
ATOM	79	HN	GLY	7	-21.441	14.724	-16.431	1.00	8.01	SEG1
ATOM	80	CA	GLY	7	-19.993	14.729	-14.831	1.00	7.15	SEG1
ATOM	81	HA1	GLY	7	-20.823	14.807	-14.147	1.00	7.30	SEG1
ATOM	82	HA2	GLY	7	-19.286	15.520	-14.625	1.00	7.43	SEG1
ATOM	83	C	GLY	7	-19.305	13.377	-14.636	1.00	6.36	SEG1
ATOM	84	O	GLY	7	-19.058	12.651	-15.579	1.00	6.40	SEG1
ATOM	85	N	HIS	8	-18.990	13.040	-13.407	1.00	5.93	SEG1
ATOM	86	HN	HIS	8	-19.199	13.649	-12.668	1.00	6.17	SEG1
ATOM	87	CA	HIS	8	-18.311	11.740	-13.127	1.00	5.39	SEG1
ATOM	88	HA	HIS	8	-18.677	10.972	-13.791	1.00	5.57	SEG1
ATOM	89	CB	HIS	8	-16.830	12.005	-13.398	1.00	5.92	SEG1
ATOM	90	HB1	HIS	8	-16.355	12.352	-12.492	1.00	6.12	SEG1
ATOM	91	HB2	HIS	8	-16.733	12.757	-14.166	1.00	6.23	SEG1
ATOM	92	CG	HIS	8	-16.170	10.733	-13.851	1.00	6.32	SEG1
ATOM	93	ND1	HIS	8	-16.762	9.885	-14.773	1.00	6.76	SEG1
ATOM	94	HD1	HIS	8	-17.627	10.024	-15.215	1.00	6.84	SEG1
ATOM	95	CD2	HIS	8	-14.976	10.147	-13.515	1.00	6.77	SEG1
ATOM	96	HD2	HIS	8	-14.259	10.552	-12.816	1.00	6.87	SEG1
ATOM	97	CE1	HIS	8	-15.933	8.842	-14.956	1.00	7.39	SEG1
ATOM	98	HE1	HIS	8	-16.140	8.014	-15.617	1.00	8.01	SEG1
ATOM	99	NE2	HIS	8	-14.828	8.952	-14.213	1.00	7.43	SEG1
ATOM	100	C	HIS	8	-18.520	11.331	-11.664	1.00	4.62	SEG1
ATOM	101	O	HIS	8	-18.996	12.104	-10.854	1.00	4.56	SEG1
ATOM	102	N	GLU	9	-18.163	10.118	-11.327	1.00	4.40	SEG1
ATOM	103	HN	GLU	9	-17.783	9.518	-12.002	1.00	4.79	SEG1
ATOM	104	CA	GLU	9	-18.332	9.637	-9.922	1.00	3.95	SEG1
ATOM	105	HA	GLU	9	-19.165	10.132	-9.449	1.00	4.17	SEG1
ATOM	106	CB	GLU	9	-18.618	8.140	-10.058	1.00	4.47	SEG1
ATOM	107	HB1	GLU	9	-18.580	7.675	-9.084	1.00	4.63	SEG1
ATOM	108	HB2								

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FIG. 2 (3 of 35)

ATOM	142	CD2	TRP	11	-12.809	4.189	-6.326	1.00	0.69	SEG1
ATOM	143	NE1	TRP	11	-10.683	4.571	-6.764	1.00	2.24	SEG1
ATOM	144	HE1	TRP	11	-9.724	4.445	-6.846	1.00	2.95	SEG1
ATOM	145	CE2	TRP	11	-11.525	3.600	-6.274	1.00	1.19	SEG1
ATOM	146	CE3	TRP	11	-13.901	3.430	-5.884	1.00	1.24	SEG1
ATOM	147	HE3	TRP	11	-14.889	3.854	-5.910	1.00	1.82	SEG1
ATOM	148	CZ2	TRP	11	-11.331	2.304	-5.801	1.00	1.05	SEG1
ATOM	149	HZ2	TRP	11	-10.339	1.878	-5.771	1.00	1.59	SEG1
ATOM	150	CZ3	TRP	11	-13.712	2.125	-5.406	1.00	1.72	SEG1
ATOM	151	HZ3	TRP	11	-14.560	1.550	-5.068	1.00	2.64	SEG1
ATOM	152	CH2	TRP	11	-12.428	1.563	-5.365	1.00	1.25	SEG1
ATOM	153	HH2	TRP	11	-12.289	0.559	-4.995	1.00	1.70	SEG1
ATOM	154	C	TRP	11	-12.535	7.832	-5.212	1.00	1.07	SEG1
ATOM	155	O	TRP	11	-11.569	8.269	-5.807	1.00	1.43	SEG1
ATOM	156	N	VAL	12	-12.488	7.557	-3.933	1.00	0.90	SEG1
ATOM	157	HN	VAL	12	-13.283	7.199	-3.483	1.00	1.07	SEG1
ATOM	158	CA	VAL	12	-11.230	7.774	-3.153	1.00	0.81	SEG1
ATOM	159	HA	VAL	12	-10.374	7.754	-3.809	1.00	0.90	SEG1
ATOM	160	CB	VAL	12	-11.366	9.163	-2.513	1.00	1.11	SEG1
ATOM	161	HB	VAL	12	-10.500	9.347	-1.893	1.00	1.25	SEG1
ATOM	162	CG1	VAL	12	-11.445	10.238	-3.600	1.00	1.39	SEG1
ATOM	163	HG11	VAL	12	-11.487	11.213	-3.136	1.00	1.88	SEG1
ATOM	164	HG12	VAL	12	-12.332	10.087	-4.195	1.00	1.88	SEG1
ATOM	165	HG13	VAL	12	-10.571	10.178	-4.231	1.00	1.65	SEG1
ATOM	166	CG2	VAL	12	-12.632	9.223	-1.651	1.00	1.61	SEG1
ATOM	167	HG21	VAL	12	-12.669	10.169	-1.132	1.00	2.15	SEG1
ATOM	168	HG22	VAL	12	-12.616	8.419	-0.931	1.00	1.97	SEG1
ATOM	169	HG23	VAL	12	-13.504	9.125	-2.281	1.00	1.99	SEG1
ATOM	170	C	VAL	12	-11.095	6.703	-2.063	1.00	0.82	SEG1
ATOM	171	O	VAL	12	-10.758	7.001	-0.932	1.00	1.69	SEG1
ATOM	172	N	GLY	13	-11.375	5.466	-2.388	1.00	0.62	SEG1
ATOM	173	HN	GLY	13	-11.660	5.252	-3.302	1.00	1.15	SEG1
ATOM	174	CA	GLY	13	-11.287	4.378	-1.367	1.00	0.89	SEG1
ATOM	175	HA1	GLY	13	-11.623	3.451	-1.805	1.00	1.13	SEG1
ATOM	176	HA2	GLY	13	-11.922	4.626	-0.529	1.00	1.25	SEG1
ATOM	177	C	GLY	13	-9.848	4.206	-0.874	1.00	0.68	SEG1
ATOM	178	O	GLY	13	-8.900	4.566	-1.544	1.00	0.70	SEG1
ATOM	179	N	SER	14	-9.692	3.645	0.299	1.00	0.57	SEG1
ATOM	180	HN	SER	14	-10.481	3.363	0.809	1.00	0.64	SEG1
ATOM	181	CA	SER	14	-8.330	3.421	0.867	1.00	0.46	SEG1
ATOM	182	HA	SER	14	-7.570	3.656	0.139	1.00	0.47	SEG1
ATOM	183	CB	SER	14	-8.235	4.373	2.057	1.00	0.63	SEG1
ATOM	184	HB1	SER	14	-8.473	5.378	1.733	1.00	1.22	SEG1
ATOM	185	HB2	SER	14	-7.235	4.356	2.457	1.00	1.22	SEG1
ATOM	186	OG	SER	14	-9.150	3.958	3.063	1.00	1.27	SEG1
ATOM	187	HG	SER	14	-8.910	4.396	3.882	1.00	1.63	SEG1
ATOM	188	C	SER	14	-8.206	1.967	1.331	1.00	0.35	SEG1
ATOM	189	O	SER	14	-9.198	1.309	1.587	1.00	0.36	SEG1
ATOM	190	N	ALA	15	-7.004	1.456	1.433	1.00	0.31	SEG1
ATOM	191	HN	ALA	15	-6.220	2.001	1.215	1.00	0.37	SEG1
ATOM	192	CA	ALA	15	-6.830	0.036	1.869	1.00	0.26	SEG1
ATOM	193	HA	ALA	15	-7.719	-0.320	2.363	1.00	0.26	SEG1
ATOM	194	CB	ALA	15	-6.611	-0.741	0.573	1.00	0.33	SEG1
ATOM	195	HB1	ALA	15	-7.409	-0.518	-0.120	1.00	1.05	SEG1
ATOM	196	HB2	ALA	15	-6.603	-1.800	0.785	1.00	1.09	SEG1
ATOM	197	HB3	ALA	15	-5.664	-0.454	0.138	1.00	1.01	SEG1
ATOM	198	C	ALA	15	-5.612	-0.112	2.785	1.00	0.24	SEG1
ATOM	199	O	ALA	15	-4.700	0.693	2.759	1.00	0.25	SEG1
ATOM	200	N	TYR	16	-5.590	-1.151	3.584	1.00	0.24	SEG1
ATOM	201	HN	TYR	16	-6.336	-1.788	3.574	1.00	0.25	SEG1
ATOM	202	CA	TYR	16	-4.431	-1.381	4.498	1.00	0.24	SEG1
ATOM	203	HA	TYR	16	-3.769	-0.529	4.495	1.00	0.25	SEG1
ATOM	204	CB	TYR	16	-5.045	-1.561	5.886	1.00	0.28	SEG1
ATOM	205	HB1	TYR	16	-4.302	-1.960	6.560	1.00	0.30	SEG1
ATOM	206	HB2	TYR	16	-5.880	-2.244	5.825	1.00	0.29	SEG1
ATOM	207	CG	TYR	16	-5.524	-0.224	6.401	1.00	0.30	SEG1
ATOM	208	CD1	TYR	16	-6.885	0.100	6.365	1.00	1.20	SEG1
ATOM	209	HD1	TYR	16	-7.597	-0.607	5.967	1.00	2.11	SEG1
ATOM	210	CD2	TYR	16	-4.601	0.693	6.916	1.00	1.30	SEG1
ATOM	211	HD2	TYR	16	-3.550	0.442	6.943	1.00	2.22	SEG1
ATOM	212	CE1	TYR	16	-7.322	1.340	6.845	1.00	1.20	SEG1
ATOM	213	HE1	TYR	16	-8.372	1.591	6.818	1.00	2.12	SEG1
ATOM	214	CE2	TYR	16	-5.036	1.933	7.395	1.00	1.32	SEG1
ATOM	215	HE2	TYR	16	-4.323	2.639	7.792	1.00	2.24	SEG1
ATOM	216	CZ	TYR	16	-6.397	2.259	7.361	1.00	0.37	SEG1
ATOM	217	OH	TYR	16	-6.826	3.483	7.839	1.00	0.42	SEG1
ATOM	218	HH	TYR	16	-7.602	3.747	7.339	1.00	1.02	SEG1

FIG. 2 (4 of 35)

ATOM	219	C	TYR	16	-3.678	-2.645	4.068	1.00	0.23	SEG1
ATOM	220	O	TYR	16	-4.273	-3.675	3.812	1.00	0.25	SEG1
ATOM	221	N	LEU	17	-2.377	-2.565	3.978	1.00	0.23	SEG1
ATOM	222	HN	LEU	17	-1.930	-1.721	4.183	1.00	0.23	SEG1
ATOM	223	CA	LEU	17	-1.570	-3.747	3.551	1.00	0.23	SEG1
ATOM	224	HA	LEU	17	-2.217	-4.569	3.299	1.00	0.24	SEG1
ATOM	225	CB	LEU	17	-0.815	-3.278	2.306	1.00	0.25	SEG1
ATOM	226	HB1	LEU	17	0.169	-3.723	2.294	1.00	0.26	SEG1
ATOM	227	HB2	LEU	17	-0.724	-2.202	2.326	1.00	0.25	SEG1
ATOM	228	CG	LEU	17	-1.577	-3.703	1.051	1.00	0.25	SEG1
ATOM	229	HG	LEU	17	-1.713	-4.777	1.063	1.00	0.26	SEG1
ATOM	230	CD1	LEU	17	-2.943	-3.009	1.014	1.00	0.25	SEG1
ATOM	231	HD11	LEU	17	-3.272	-2.919	-0.010	1.00	1.04	SEG1
ATOM	232	HD12	LEU	17	-2.859	-2.026	1.453	1.00	1.04	SEG1
ATOM	233	HD13	LEU	17	-3.659	-3.593	1.573	1.00	1.03	SEG1
ATOM	234	CD2	LEU	17	-0.775	-3.299	-0.188	1.00	0.28	SEG1
ATOM	235	HD21	LEU	17	-1.452	-3.080	-0.999	1.00	1.03	SEG1
ATOM	236	HD22	LEU	17	-0.120	-4.109	-0.473	1.00	1.07	SEG1
ATOM	237	HD23	LEU	17	-0.187	-2.421	0.037	1.00	1.01	SEG1
ATOM	238	C	LEU	17	-0.587	-4.159	4.646	1.00	0.24	SEG1
ATOM	239	O	LEU	17	-0.008	-3.327	5.318	1.00	0.24	SEG1
ATOM	240	N	PHE	18	-0.397	-5.443	4.826	1.00	0.26	SEG1
ATOM	241	HN	PHE	18	-0.877	-6.090	4.269	1.00	0.28	SEG1
ATOM	242	CA	PHE	18	0.549	-5.923	5.878	1.00	0.28	SEG1
ATOM	243	HA	PHE	18	0.825	-5.116	6.536	1.00	0.26	SEG1
ATOM	244	CB	PHE	18	-0.221	-6.998	6.657	1.00	0.30	SEG1
ATOM	245	HB1	PHE	18	0.392	-7.355	7.471	1.00	0.31	SEG1
ATOM	246	HB2	PHE	18	-0.447	-7.820	5.996	1.00	0.31	SEG1
ATOM	247	CG	PHE	18	-1.514	-6.433	7.214	1.00	0.29	SEG1
ATOM	248	CD1	PHE	18	-1.550	-5.139	7.750	1.00	1.21	SEG1
ATOM	249	HD1	PHE	18	-0.652	-4.540	7.764	1.00	2.13	SEG1
ATOM	250	CD2	PHE	18	-2.678	-7.210	7.191	1.00	1.27	SEG1
ATOM	251	HD2	PHE	18	-2.652	-8.208	6.779	1.00	2.18	SEG1
ATOM	252	CE1	PHE	18	-2.745	-4.624	8.261	1.00	1.20	SEG1
ATOM	253	HE1	PHE	18	-2.770	-3.626	8.674	1.00	2.11	SEG1
ATOM	254	CE2	PHE	18	-3.874	-6.695	7.703	1.00	1.29	SEG1
ATOM	255	HE2	PHE	18	-4.772	-7.296	7.685	1.00	2.22	SEG1
ATOM	256	CZ	PHE	18	-3.907	-5.402	8.238	1.00	0.32	SEG1
ATOM	257	HZ	PHE	18	-4.828	-5.004	8.631	1.00	0.35	SEG1
ATOM	258	C	PHE	18	1.787	-6.535	5.226	1.00	0.30	SEG1
ATOM	259	O	PHE	18	1.681	-7.379	4.360	1.00	0.33	SEG1
ATOM	260	N	VAL	19	2.956	-6.123	5.641	1.00	0.29	SEG1
ATOM	261	HN	VAL	19	3.013	-5.443	6.346	1.00	0.27	SEG1
ATOM	262	CA	VAL	19	4.206	-6.689	5.048	1.00	0.32	SEG1
ATOM	263	HA	VAL	19	3.970	-7.353	4.230	1.00	0.35	SEG1
ATOM	264	CB	VAL	19	4.993	-5.478	4.535	1.00	0.33	SEG1
ATOM	265	HB	VAL	19	5.223	-4.826	5.367	1.00	0.31	SEG1
ATOM	266	CG1	VAL	19	6.300	-5.953	3.891	1.00	0.37	SEG1
ATOM	267	HG11	VAL	19	6.080	-6.458	2.962	1.00	1.07	SEG1
ATOM	268	HG12	VAL	19	6.804	-6.635	4.560	1.00	1.07	SEG1
ATOM	269	HG13	VAL	19	6.936	-5.102	3.696	1.00	1.08	SEG1
ATOM	270	CG2	VAL	19	4.157	-4.712	3.500	1.00	0.36	SEG1
ATOM	271	HG21	VAL	19	4.520	-4.930	2.507	1.00	1.03	SEG1
ATOM	272	HG22	VAL	19	4.240	-3.652	3.687	1.00	1.07	SEG1
ATOM	273	HG23	VAL	19	3.121	-5.010	3.578	1.00	1.13	SEG1
ATOM	274	C	VAL	19	5.001	-7.426	6.128	1.00	0.32	SEG1
ATOM	275	O	VAL	19	5.376	-6.844	7.131	1.00	0.31	SEG1
ATOM	276	N	GLU	20	5.260	-8.698	5.937	1.00	0.36	SEG1
ATOM	277	HN	GLU	20	4.945	-9.149	5.122	1.00	0.38	SEG1
ATOM	278	CA	GLU	20	6.035	-9.459	6.969	1.00	0.38	SEG1
ATOM	279	HA	GLU	20	6.640	-8.784	7.553	1.00	0.38	SEG1
ATOM	280	CB	GLU	20	4.968	-10.101	7.858	1.00	0.41	SEG1
ATOM	281	HB1	GLU	20	4.576	-10.981	7.372	1.00	0.96	SEG1
ATOM	282	HB2	GLU	20	4.167	-9.393	8.025	1.00	0.89	SEG1
ATOM	283	CG	GLU	20	5.581	-10.495	9.206	1.00	1.26	SEG1
ATOM	284	HG1	GLU	20	5.966	-9.612	9.693	1.00	1.79	SEG1
ATOM	285	HG2	GLU	20	6.387	-11.193	9.045	1.00	1.83	SEG1
ATOM	286	CD	GLU	20	4.515	-11.141	10.106	1.00	1.26	SEG1
ATOM	287	OE1	GLU	20	4.890	-11.676	11.136	1.00	1.44	SEG1
ATOM	288	OE2	GLU	20	3.343	-11.084	9.758	1.00	1.82	SEG1
ATOM	289	C	GLU	20	6.920	-10.527	6.305	1.00	0.41	SEG1
ATOM	290	O	GLU	20	6.590	-11.059	5.264	1.00	0.48	SEG1
ATOM	291	N	SER	21	8.045	-10.834	6.906	1.00	0.42	SEG1
ATOM	292	HN	SER	21	8.286	-10.383	7.743	1.00	0.44	SEG1
ATOM	293	CA	SER	21	8.971	-11.860	6.324	1.00	0.48	SEG1
ATOM	294	HA	SER	21	8.796	-11.968	5.265	1.00	0.50	SEG1
ATOM	295	CB	SER	21	10.372	-11.292	6.554	1.00	0.52	SEG1

ATOM	296	HB1	SER	21	10.474	-10.360	6.014	1.00	0.55	SEG1
ATOM	297	HB2	SER	21	11.109	-11.992	6.197	1.00	0.54	SEG1
ATOM	298	OG	SER	21	10.572	-11.073	7.945	1.00	0.62	SEG1
ATOM	299	HG	SER	21	10.391	-11.893	8.405	1.00	1.01	SEG1
ATOM	300	C	SER	21	8.820	-13.220	7.030	1.00	0.56	SEG1
ATOM	301	O	SER	21	9.613	-14.118	6.826	1.00	1.22	SEG1
ATOM	302	N	SER	22	7.817	-13.378	7.863	1.00	0.86	SEG1
ATOM	303	HN	SER	22	7.193	-12.643	8.016	1.00	1.44	SEG1
ATOM	304	CA	SER	22	7.615	-14.675	8.592	1.00	0.95	SEG1
ATOM	305	HA	SER	22	6.749	-14.607	9.232	1.00	1.07	SEG1
ATOM	306	CB	SER	22	7.374	-15.735	7.512	1.00	1.04	SEG1
ATOM	307	HB1	SER	22	8.297	-16.265	7.318	1.00	1.13	SEG1
ATOM	308	HB2	SER	22	7.039	-15.260	6.605	1.00	1.30	SEG1
ATOM	309	OG	SER	22	6.376	-16.643	7.960	1.00	1.42	SEG1
ATOM	310	HG	SER	22	6.500	-17.474	7.495	1.00	1.68	SEG1
ATOM	311	C	SER	22	8.855	-15.024	9.424	1.00	0.91	SEG1
ATOM	312	O	SER	22	9.120	-16.180	9.698	1.00	0.94	SEG1
ATOM	313	N	LEU	23	9.604	-14.033	9.841	1.00	0.96	SEG1
ATOM	314	HN	LEU	23	9.362	-13.111	9.617	1.00	1.04	SEG1
ATOM	315	CA	LEU	23	10.819	-14.303	10.673	1.00	1.03	SEG1
ATOM	316	HA	LEU	23	10.973	-15.365	10.782	1.00	1.20	SEG1
ATOM	317	CB	LEU	23	11.986	-13.678	9.904	1.00	0.94	SEG1
ATOM	318	HB1	LEU	23	12.861	-13.658	10.537	1.00	1.14	SEG1
ATOM	319	HB2	LEU	23	11.729	-12.670	9.616	1.00	1.11	SEG1
ATOM	320	CG	LEU	23	12.286	-14.508	8.654	1.00	1.17	SEG1
ATOM	321	HG	LEU	23	11.371	-14.691	8.112	1.00	1.54	SEG1
ATOM	322	CD1	LEU	23	13.270	-13.748	7.762	1.00	1.51	SEG1
ATOM	323	HD11	LEU	23	12.805	-12.843	7.401	1.00	1.96	SEG1
ATOM	324	HD12	LEU	23	13.547	-14.368	6.921	1.00	2.02	SEG1
ATOM	325	HD13	LEU	23	14.153	-13.497	8.331	1.00	1.83	SEG1
ATOM	326	CD2	LEU	23	12.914	-15.839	9.073	1.00	1.52	SEG1
ATOM	327	HD21	LEU	23	13.458	-16.258	8.240	1.00	1.93	SEG1
ATOM	328	HD22	LEU	23	12.138	-16.524	9.378	1.00	2.01	SEG1
ATOM	329	HD23	LEU	23	13.592	-15.672	9.898	1.00	1.88	SEG1
ATOM	330	C	LEU	23	10.668	-13.638	12.043	1.00	1.14	SEG1
ATOM	331	O	LEU	23	10.726	-12.430	12.165	1.00	1.44	SEG1
ATOM	332	N	ASP	24	10.479	-14.422	13.073	1.00	1.17	SEG1
ATOM	333	HN	ASP	24	10.438	-15.393	12.943	1.00	1.26	SEG1
ATOM	334	CA	ASP	24	10.324	-13.844	14.444	1.00	1.33	SEG1
ATOM	335	HA	ASP	24	9.561	-13.082	14.444	1.00	1.51	SEG1
ATOM	336	CB	ASP	24	9.887	-15.016	15.327	1.00	1.68	SEG1
ATOM	337	HB1	ASP	24	9.925	-14.718	16.365	1.00	1.96	SEG1
ATOM	338	HB2	ASP	24	10.552	-15.851	15.169	1.00	1.96	SEG1
ATOM	339	CG	ASP	24	8.455	-15.430	14.972	1.00	1.87	SEG1
ATOM	340	OD1	ASP	24	8.137	-16.594	15.151	1.00	2.18	SEG1
ATOM	341	OD2	ASP	24	7.700	-14.577	14.532	1.00	2.42	SEG1
ATOM	342	C	ASP	24	11.654	-13.263	14.943	1.00	1.21	SEG1
ATOM	343	O	ASP	24	11.680	-12.453	15.850	1.00	1.73	SEG1
ATOM	344	N	LYS	25	12.757	-13.677	14.367	1.00	1.40	SEG1
ATOM	345	HN	LYS	25	12.714	-14.337	13.644	1.00	1.84	SEG1
ATOM	346	CA	LYS	25	14.086	-13.157	14.816	1.00	1.71	SEG1
ATOM	347	HA	LYS	25	14.109	-13.063	15.889	1.00	1.98	SEG1
ATOM	348	CB	LYS	25	15.096	-14.216	14.368	1.00	2.08	SEG1
ATOM	349	HB1	LYS	25	16.098	-13.842	14.519	1.00	2.36	SEG1
ATOM	350	HB2	LYS	25	14.947	-14.430	13.320	1.00	1.98	SEG1
ATOM	351	CG	LYS	25	14.905	-15.498	15.181	1.00	2.37	SEG1
ATOM	352	HG1	LYS	25	13.906	-15.877	15.028	1.00	2.26	SEG1
ATOM	353	HG2	LYS	25	15.054	-15.286	16.230	1.00	2.63	SEG1
ATOM	354	CD	LYS	25	15.922	-16.545	14.720	1.00	2.85	SEG1
ATOM	355	HD1	LYS	25	16.921	-16.166	14.874	1.00	3.30	SEG1
ATOM	356	HD2	LYS	25	15.774	-16.753	13.670	1.00	2.96	SEG1
ATOM	357	CE	LYS	25	15.738	-17.833	15.527	1.00	3.10	SEG1
ATOM	358	HE1	LYS	25	14.780	-18.279	15.310	1.00	3.12	SEG1
ATOM	359	HE2	LYS	25	15.831	-17.629	16.584	1.00	3.39	SEG1
ATOM	360	NZ	LYS	25	16.834	-18.732	15.069	1.00	3.59	SEG1
ATOM	361	HZ1	LYS	25	17.748	-18.362	15.398	1.00	3.96	SEG1
ATOM	362	HZ2	LYS	25	16.833	-18.778	14.029	1.00	3.70	SEG1
ATOM	363	HZ3	LYS	25	16.688	-19.684	15.458	1.00	3.91	SEG1
ATOM	364	C	LYS	25	14.414	-11.811	14.152	1.00	1.50	SEG1
ATOM	365	O	LYS	25	15.402	-11.183	14.489	1.00	1.60	SEG1
ATOM	366	N	VAL	26	13.614	-11.362	13.211	1.00	1.35	SEG1
ATOM	367	HN	VAL	26	12.826	-11.876	12.943	1.00	1.43	SEG1
ATOM	368	CA	VAL	26	13.912	-10.062	12.538	1.00	1.21	SEG1
ATOM	369	HA	VAL	26	14.886	-9.702	12.832	1.00	1.29	SEG1
ATOM	370	CB	VAL	26	13.903	-10.380	11.037	1.00	1.42	SEG1
ATOM	371	HB	VAL	26	12.932	-10.761	10.756	1.00	1.62	SEG1
ATOM	372	CG1	VAL	26	14.200	-9.108	10.237	1.00	1.89	SEG1

ATOM	373	HG11	VAL	26	13.971	-9.278	9.195	1.00	2.27	SEG1
ATOM	374	HG12	VAL	26	15.244	-8.854	10.340	1.00	2.38	SEG1
ATOM	375	HG13	VAL	26	13.594	-8.297	10.611	1.00	2.31	SEG1
ATOM	376	CG2	VAL	26	14.973	-11.431	10.728	1.00	2.08	SEG1
ATOM	377	HG21	VAL	26	15.828	-11.275	11.370	1.00	2.45	SEG1
ATOM	378	HG22	VAL	26	15.278	-11.342	9.696	1.00	2.51	SEG1
ATOM	379	HG23	VAL	26	14.569	-12.418	10.900	1.00	2.57	SEG1
ATOM	380	C	VAL	26	12.836	-9.026	12.877	1.00	1.02	SEG1
ATOM	381	O	VAL	26	11.670	-9.210	12.577	1.00	1.13	SEG1
ATOM	382	N	VAL	27	13.225	-7.935	13.484	1.00	0.99	SEG1
ATOM	383	HN	VAL	27	14.171	-7.811	13.703	1.00	1.14	SEG1
ATOM	384	CA	VAL	27	12.232	-6.873	13.827	1.00	1.00	SEG1
ATOM	385	HA	VAL	27	11.271	-7.317	14.042	1.00	1.11	SEG1
ATOM	386	CB	VAL	27	12.783	-6.182	15.085	1.00	1.28	SEG1
ATOM	387	HB	VAL	27	12.091	-5.413	15.399	1.00	1.71	SEG1
ATOM	388	CG1	VAL	27	12.928	-7.213	16.209	1.00	1.74	SEG1
ATOM	389	HG11	VAL	27	11.949	-7.521	16.544	1.00	2.16	SEG1
ATOM	390	HG12	VAL	27	13.470	-6.773	17.033	1.00	2.26	SEG1
ATOM	391	HG13	VAL	27	13.469	-8.072	15.841	1.00	2.14	SEG1
ATOM	392	CG2	VAL	27	14.154	-5.547	14.792	1.00	1.90	SEG1
ATOM	393	HG21	VAL	27	14.856	-5.818	15.568	1.00	2.40	SEG1
ATOM	394	HG22	VAL	27	14.051	-4.473	14.763	1.00	2.42	SEG1
ATOM	395	HG23	VAL	27	14.521	-5.896	13.838	1.00	2.26	SEG1
ATOM	396	C	VAL	27	12.112	-5.891	12.655	1.00	0.83	SEG1
ATOM	397	O	VAL	27	12.578	-4.769	12.717	1.00	0.80	SEG1
ATOM	398	N	LEU	28	11.497	-6.319	11.581	1.00	0.77	SEG1
ATOM	399	HN	LEU	28	11.142	-7.236	11.559	1.00	0.85	SEG1
ATOM	400	CA	LEU	28	11.353	-5.429	10.385	1.00	0.65	SEG1
ATOM	401	HA	LEU	28	12.323	-5.176	9.987	1.00	0.73	SEG1
ATOM	402	CB	LEU	28	10.571	-6.248	9.359	1.00	0.66	SEG1
ATOM	403	HB1	LEU	28	10.277	-5.610	8.539	1.00	0.81	SEG1
ATOM	404	HB2	LEU	28	9.689	-6.660	9.829	1.00	0.72	SEG1
ATOM	405	CG	LEU	28	11.445	-7.384	8.832	1.00	1.04	SEG1
ATOM	406	HG	LEU	28	11.877	-7.921	9.664	1.00	1.45	SEG1
ATOM	407	CD1	LEU	28	10.588	-8.336	8.001	1.00	1.13	SEG1
ATOM	408	HD11	LEU	28	9.882	-7.766	7.415	1.00	1.40	SEG1
ATOM	409	HD12	LEU	28	10.052	-9.005	8.658	1.00	1.73	SEG1
ATOM	410	HD13	LEU	28	11.222	-8.910	7.342	1.00	1.54	SEG1
ATOM	411	CD2	LEU	28	12.560	-6.805	7.959	1.00	1.38	SEG1
ATOM	412	HD21	LEU	28	12.188	-5.943	7.425	1.00	1.93	SEG1
ATOM	413	HD22	LEU	28	12.889	-7.553	7.253	1.00	1.66	SEG1
ATOM	414	HD23	LEU	28	13.391	-6.510	8.584	1.00	1.78	SEG1
ATOM	415	C	LEU	28	10.576	-4.160	10.737	1.00	0.52	SEG1
ATOM	416	O	LEU	28	10.902	-3.082	10.279	1.00	0.49	SEG1
ATOM	417	N	SER	29	9.547	-4.279	11.537	1.00	0.53	SEG1
ATOM	418	HN	SER	29	9.302	-5.163	11.885	1.00	0.61	SEG1
ATOM	419	CA	SER	29	8.735	-3.075	11.909	1.00	0.50	SEG1
ATOM	420	HA	SER	29	8.245	-2.669	11.037	1.00	0.45	SEG1
ATOM	421	CB	SER	29	7.690	-3.587	12.903	1.00	0.64	SEG1
ATOM	422	HB1	SER	29	7.195	-4.456	12.489	1.00	0.68	SEG1
ATOM	423	HB2	SER	29	6.961	-2.817	13.090	1.00	0.69	SEG1
ATOM	424	OG	SER	29	8.332	-3.930	14.125	1.00	0.74	SEG1
ATOM	425	HG	SER	29	7.660	-4.234	14.739	1.00	1.18	SEG1
ATOM	426	C	SER	29	9.622	-2.014	12.569	1.00	0.51	SEG1
ATOM	427	O	SER	29	9.388	-0.827	12.436	1.00	0.47	SEG1
ATOM	428	N	ASP	30	10.640	-2.436	13.274	1.00	0.61	SEG1
ATOM	429	HN	ASP	30	10.805	-3.399	13.361	1.00	0.66	SEG1
ATOM	430	CA	ASP	30	11.555	-1.459	13.946	1.00	0.70	SEG1
ATOM	431	HA	ASP	30	11.012	-0.874	14.672	1.00	0.74	SEG1
ATOM	432	CB	ASP	30	12.614	-2.315	14.651	1.00	0.86	SEG1
ATOM	433	HB1	ASP	30	13.205	-2.833	13.911	1.00	1.25	SEG1
ATOM	434	HB2	ASP	30	12.123	-3.037	15.288	1.00	0.89	SEG1
ATOM	435	CG	ASP	30	13.531	-1.426	15.500	1.00	1.76	SEG1
ATOM	436	OD1	ASP	30	13.699	-0.267	15.156	1.00	2.44	SEG1
ATOM	437	OD2	ASP	30	14.049	-1.922	16.488	1.00	2.38	SEG1
ATOM	438	C	ASP	30	12.203	-0.543	12.901	1.00	0.66	SEG1
ATOM	439	O	ASP	30	12.366	0.643	13.120	1.00	0.69	SEG1
ATOM	440	N	ALA	31	12.580	-1.089	11.774	1.00	0.65	SEG1
ATOM	441	HN	ALA	31	12.442	-2.049	11.629	1.00	0.64	SEG1
ATOM	442	CA	ALA	31	13.229	-0.259	10.710	1.00	0.69	SEG1
ATOM	443	HA	ALA	31	14.158	0.154	11.072	1.00	0.81	SEG1
ATOM	444	CB	ALA	31	13.506	-1.226	9.556	1.00	0.73	SEG1
ATOM	445	HB1	ALA	31	13.622	-2.227	9.945	1.00	1.33	SEG1
ATOM	446	HB2	ALA	31	14.413	-0.930	9.048	1.00	1.15	SEG1
ATOM	447	HB3	ALA	31	12.681	-1.203	8.860	1.00	1.27	SEG1
ATOM	448	C	ALA	31	12.290	0.862	10.254	1.00	0.59	SEG1
ATOM	449	O	ALA	31	12.716	1.974	10.014	1.00	0.66	SEG1

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ATOM	450	N	TYR	32	11.018	0.584	10.133	1.00	0.47	SEG1
ATOM	451	HN	TYR	32	10.692	-0.320	10.330	1.00	0.45	SEG1
ATOM	452	CA	TYR	32	10.059	1.645	9.690	1.00	0.41	SEG1
ATOM	453	HA	TYR	32	10.466	2.190	8.854	1.00	0.46	SEG1
ATOM	454	CB	TYR	32	8.803	0.884	9.250	1.00	0.38	SEG1
ATOM	455	HB1	TYR	32	8.056	1.586	8.915	1.00	0.40	SEG1
ATOM	456	HB2	TYR	32	8.416	0.316	10.084	1.00	0.39	SEG1
ATOM	457	CG	TYR	32	9.152	-0.058	8.119	1.00	0.40	SEG1
ATOM	458	CD1	TYR	32	9.232	0.419	6.805	1.00	1.24	SEG1
ATOM	459	HD1	TYR	32	9.041	1.462	6.597	1.00	2.11	SEG1
ATOM	460	CD2	TYR	32	9.399	-1.410	8.388	1.00	1.23	SEG1
ATOM	461	HD2	TYR	32	9.334	-1.778	9.400	1.00	2.09	SEG1
ATOM	462	CE1	TYR	32	9.560	-0.456	5.762	1.00	1.25	SEG1
ATOM	463	HE1	TYR	32	9.622	-0.089	4.749	1.00	2.11	SEG1
ATOM	464	CE2	TYR	32	9.727	-2.283	7.345	1.00	1.26	SEG1
ATOM	465	HE2	TYR	32	9.918	-3.326	7.553	1.00	2.13	SEG1
ATOM	466	CZ	TYR	32	9.808	-1.806	6.031	1.00	0.49	SEG1
ATOM	467	OH	TYR	32	10.132	-2.668	5.002	1.00	0.55	SEG1
ATOM	468	HH	TYR	32	9.706	-3.511	5.174	1.00	1.03	SEG1
ATOM	469	C	TYR	32	9.734	2.605	10.847	1.00	0.40	SEG1
ATOM	470	O	TYR	32	9.132	3.642	10.644	1.00	0.42	SEG1
ATOM	471	N	ALA	33	10.123	2.271	12.057	1.00	0.43	SEG1
ATOM	472	HN	ALA	33	10.604	1.430	12.202	1.00	0.47	SEG1
ATOM	473	CA	ALA	33	9.832	3.167	13.224	1.00	0.46	SEG1
ATOM	474	HA	ALA	33	8.769	3.274	13.357	1.00	0.50	SEG1
ATOM	475	CB	ALA	33	10.438	2.455	14.435	1.00	0.54	SEG1
ATOM	476	HB1	ALA	33	11.504	2.351	14.294	1.00	1.26	SEG1
ATOM	477	HB2	ALA	33	9.993	1.476	14.538	1.00	1.17	SEG1
ATOM	478	HB3	ALA	33	10.247	3.033	15.327	1.00	0.97	SEG1
ATOM	479	C	ALA	33	10.485	4.541	13.037	1.00	0.41	SEG1
ATOM	480	O	ALA	33	9.906	5.560	13.364	1.00	0.44	SEG1
ATOM	481	N	HIS	34	11.687	4.572	12.526	1.00	0.39	SEG1
ATOM	482	HN	HIS	34	12.130	3.733	12.280	1.00	0.41	SEG1
ATOM	483	CA	HIS	34	12.392	5.880	12.327	1.00	0.39	SEG1
ATOM	484	HA	HIS	34	12.419	6.436	13.251	1.00	0.44	SEG1
ATOM	485	CB	HIS	34	13.814	5.502	11.904	1.00	0.43	SEG1
ATOM	486	HB1	HIS	34	13.885	5.515	10.827	1.00	0.43	SEG1
ATOM	487	HB2	HIS	34	14.043	4.512	12.269	1.00	0.46	SEG1
ATOM	488	CG	HIS	34	14.795	6.485	12.483	1.00	0.52	SEG1
ATOM	489	ND1	HIS	34	15.735	7.139	11.702	1.00	0.57	SEG1
ATOM	490	HD1	HIS	34	15.854	7.041	10.735	1.00	0.64	SEG1
ATOM	491	CD2	HIS	34	14.998	6.930	13.766	1.00	0.70	SEG1
ATOM	492	HD2	HIS	34	14.430	6.617	14.630	1.00	0.86	SEG1
ATOM	493	CE1	HIS	34	16.454	7.935	12.515	1.00	0.66	SEG1
ATOM	494	HE1	HIS	34	17.263	8.568	12.183	1.00	0.73	SEG1
ATOM	495	NE2	HIS	34	16.045	7.846	13.784	1.00	0.75	SEG1
ATOM	496	C	HIS	34	11.697	6.701	11.227	1.00	0.37	SEG1
ATOM	497	O	HIS	34	11.149	6.139	10.300	1.00	0.35	SEG1
ATOM	498	N	PRO	35	11.734	8.013	11.362	1.00	0.42	SEG1
ATOM	499	CA	PRO	35	11.085	8.890	10.355	1.00	0.44	SEG1
ATOM	500	HA	PRO	35	10.074	8.566	10.165	1.00	0.44	SEG1
ATOM	501	CB	PRO	35	11.075	10.263	11.021	1.00	0.55	SEG1
ATOM	502	HB1	PRO	35	10.140	10.425	11.535	1.00	0.59	SEG1
ATOM	503	HB2	PRO	35	11.240	11.038	10.285	1.00	0.59	SEG1
ATOM	504	CG	PRO	35	12.199	10.228	12.005	1.00	0.58	SEG1
ATOM	505	HG1	PRO	35	11.959	10.841	12.861	1.00	0.65	SEG1
ATOM	506	HG2	PRO	35	13.107	10.583	11.538	1.00	0.61	SEG1
ATOM	507	CD	PRO	35	12.366	8.795	12.440	1.00	0.49	SEG1
ATOM	508	HD2	PRO	35	13.415	8.550	12.526	1.00	0.51	SEG1
ATOM	509	HD1	PRO	35	11.857	8.620	13.374	1.00	0.51	SEG1
ATOM	510	C	PRO	35	11.895	8.917	9.054	1.00	0.43	SEG1
ATOM	511	O	PRO	35	11.339	8.898	7.972	1.00	0.42	SEG1
ATOM	512	N	GLN	36	13.204	8.958	9.149	1.00	0.46	SEG1
ATOM	513	HN	GLN	36	13.628	8.971	10.032	1.00	0.48	SEG1
ATOM	514	CA	GLN	36	14.048	8.983	7.910	1.00	0.49	SEG1
ATOM	515	HA	GLN	36	13.841	9.867	7.329	1.00	0.52	SEG1
ATOM	516	CB	GLN	36	15.497	9.005	8.402	1.00	0.56	SEG1
ATOM	517	HB1	GLN	36	16.163	8.849	7.565	1.00	0.92	SEG1
ATOM	518	HB2	GLN	36	15.644	8.220	9.129	1.00	0.96	SEG1
ATOM	519	CG	GLN	36	15.801	10.360	9.044	1.00	1.47	SEG1
ATOM	520	HG1	GLN	36	15.086	10.555	9.828	1.00	2.04	SEG1
ATOM	521	HG2	GLN	36	15.737	11.136	8.294	1.00	2.03	SEG1
ATOM	522	CD	GLN	36	17.211	10.337	9.636	1.00	1.79	SEG1
ATOM	523	OE1	GLN	36	17.670	9.313	10.102	1.00	1.72	SEG1
ATOM	524	NE2	GLN	36	17.922	11.430	9.638	1.00	2.68	SEG1
ATOM	525	HE21	GLN	36	17.553	12.256	9.261	1.00	3.14	SEG1
ATOM	526	HE22	GLN	36	18.827	11.426	10.015	1.00	3.03	SEG1

ATOM	527	C	GLN	36	13.784	7.724	7.081	1.00	0.44	SEG1	FIG. 2 (8 OF 33)
ATOM	528	O	GLN	36	13.699	7.773	5.868	1.00	0.45	SEG1	
ATOM	529	N	GLN	37	13.641	6.602	7.734	1.00	0.41	SEG1	
ATOM	530	HN	GLN	37	13.704	6.599	8.714	1.00	0.41	SEG1	
ATOM	531	CA	GLN	37	13.363	5.331	7.003	1.00	0.40	SEG1	
ATOM	532	HA	GLN	37	14.080	5.189	6.213	1.00	0.45	SEG1	
ATOM	533	CB	GLN	37	13.518	4.228	8.052	1.00	0.41	SEG1	
ATOM	534	HB1	GLN	37	13.168	3.290	7.649	1.00	0.42	SEG1	
ATOM	535	HB2	GLN	37	12.944	4.483	8.932	1.00	0.38	SEG1	
ATOM	536	CG	GLN	37	14.999	4.103	8.424	1.00	0.48	SEG1	
ATOM	537	HG1	GLN	37	15.356	5.048	8.803	1.00	0.60	SEG1	
ATOM	538	HG2	GLN	37	15.566	3.830	7.546	1.00	0.64	SEG1	
ATOM	539	CD	GLN	37	15.178	3.027	9.497	1.00	0.50	SEG1	
ATOM	540	OE1	GLN	37	14.775	3.208	10.626	1.00	1.10	SEG1	
ATOM	541	NE2	GLN	37	15.773	1.907	9.193	1.00	0.90	SEG1	
ATOM	542	HE21	GLN	37	16.103	1.758	8.282	1.00	1.44	SEG1	
ATOM	543	HE22	GLN	37	15.889	1.213	9.876	1.00	0.99	SEG1	
ATOM	544	C	GLN	37	11.950	5.366	6.422	1.00	0.36	SEG1	
ATOM	545	O	GLN	37	11.706	4.870	5.340	1.00	0.37	SEG1	
ATOM	546	N	LYS	38	11.022	5.968	7.125	1.00	0.33	SEG1	
ATOM	547	HN	LYS	38	11.253	6.372	7.987	1.00	0.33	SEG1	
ATOM	548	CA	LYS	38	9.620	6.055	6.604	1.00	0.31	SEG1	
ATOM	549	HA	LYS	38	9.196	5.071	6.484	1.00	0.32	SEG1	
ATOM	550	CB	LYS	38	8.849	6.839	7.672	1.00	0.33	SEG1	
ATOM	551	HB1	LYS	38	9.294	7.815	7.792	1.00	0.35	SEG1	
ATOM	552	HB2	LYS	38	8.894	6.306	8.610	1.00	0.34	SEG1	
ATOM	553	CG	LYS	38	7.388	6.999	7.251	1.00	0.36	SEG1	
ATOM	554	HG1	LYS	38	6.937	6.024	7.138	1.00	0.37	SEG1	
ATOM	555	HG2	LYS	38	7.338	7.532	6.312	1.00	0.36	SEG1	
ATOM	556	CD	LYS	38	6.635	7.784	8.328	1.00	0.46	SEG1	
ATOM	557	HD1	LYS	38	7.088	8.756	8.450	1.00	1.19	SEG1	
ATOM	558	HD2	LYS	38	6.682	7.244	9.264	1.00	1.04	SEG1	
ATOM	559	CE	LYS	38	5.175	7.953	7.910	1.00	1.07	SEG1	
ATOM	560	HE1	LYS	38	4.696	6.991	7.826	1.00	1.63	SEG1	
ATOM	561	HE2	LYS	38	5.113	8.490	6.973	1.00	1.71	SEG1	
ATOM	562	NZ	LYS	38	4.547	8.742	9.007	1.00	1.03	SEG1	
ATOM	563	HZ1	LYS	38	5.129	9.580	9.207	1.00	1.31	SEG1	
ATOM	564	HZ2	LYS	38	4.478	8.152	9.862	1.00	1.61	SEG1	
ATOM	565	HZ3	LYS	38	3.596	9.044	8.716	1.00	1.33	SEG1	
ATOM	566	C	LYS	38	9.619	6.811	5.269	1.00	0.32	SEG1	
ATOM	567	O	LYS	38	8.966	6.417	4.321	1.00	0.34	SEG1	
ATOM	568	N	VAL	39	10.366	7.883	5.191	1.00	0.33	SEG1	
ATOM	569	HN	VAL	39	10.888	8.164	5.969	1.00	0.34	SEG1	
ATOM	570	CA	VAL	39	10.439	8.664	3.917	1.00	0.35	SEG1	
ATOM	571	HA	VAL	39	9.447	8.907	3.564	1.00	0.36	SEG1	
ATOM	572	CB	VAL	39	11.208	9.947	4.274	1.00	0.38	SEG1	
ATOM	573	HB	VAL	39	12.149	9.682	4.733	1.00	0.39	SEG1	
ATOM	574	CG1	VAL	39	11.479	10.772	3.009	1.00	0.42	SEG1	
ATOM	575	HG11	VAL	39	11.881	11.735	3.286	1.00	1.12	SEG1	
ATOM	576	HG12	VAL	39	10.557	10.910	2.465	1.00	1.09	SEG1	
ATOM	577	HG13	VAL	39	12.190	10.251	2.385	1.00	1.05	SEG1	
ATOM	578	CG2	VAL	39	10.381	10.782	5.253	1.00	0.38	SEG1	
ATOM	579	HG21	VAL	39	10.683	11.816	5.188	1.00	1.08	SEG1	
ATOM	580	HG22	VAL	39	10.545	10.422	6.258	1.00	1.12	SEG1	
ATOM	581	HG23	VAL	39	9.334	10.695	5.005	1.00	1.03	SEG1	
ATOM	582	C	VAL	39	11.203	7.842	2.870	1.00	0.37	SEG1	
ATOM	583	O	VAL	39	10.831	7.796	1.713	1.00	0.40	SEG1	
ATOM	584	N	ALA	40	12.260	7.178	3.277	1.00	0.39	SEG1	
ATOM	585	HN	ALA	40	12.533	7.222	4.218	1.00	0.38	SEG1	
ATOM	586	CA	ALA	40	13.035	6.340	2.310	1.00	0.42	SEG1	
ATOM	587	HA	ALA	40	13.366	6.933	1.471	1.00	0.46	SEG1	
ATOM	588	CB	ALA	40	14.234	5.810	3.098	1.00	0.45	SEG1	
ATOM	589	HB1	ALA	40	14.571	6.566	3.793	1.00	1.04	SEG1	
ATOM	590	HB2	ALA	40	15.035	5.566	2.416	1.00	1.12	SEG1	
ATOM	591	HB3	ALA	40	13.943	4.924	3.644	1.00	1.11	SEG1	
ATOM	592	C	ALA	40	12.142	5.193	1.842	1.00	0.40	SEG1	
ATOM	593	O	ALA	40	12.097	4.854	0.675	1.00	0.42	SEG1	
ATOM	594	N	VAL	41	11.401	4.625	2.756	1.00	0.38	SEG1	
ATOM	595	HN	VAL	41	11.447	4.948	3.681	1.00	0.37	SEG1	
ATOM	596	CA	VAL	41	10.457	3.522	2.402	1.00	0.38	SEG1	
ATOM	597	HA	VAL	41	10.991	2.697	1.958	1.00	0.41	SEG1	
ATOM	598	CB	VAL	41	9.836	3.092	3.741	1.00	0.37	SEG1	
ATOM	599	HB	VAL	41	9.493	3.965	4.276	1.00	0.35	SEG1	
ATOM	600	CG1	VAL	41	8.663	2.133	3.508	1.00	0.38	SEG1	
ATOM	601	HG11	VAL	41	7.767	2.703	3.315	1.00	0.97	SEG1	
ATOM	602	HG12	VAL	41	8.518	1.522	4.387	1.00	1.10	SEG1	
ATOM	603	HG13	VAL	41	8.878	1.500	2.660	1.00	1.07	SEG1	

ATOM	604	CG2	VAL	41	10.901	2.376	4.573	1.00	0.39	SEG1
ATOM	605	HG21	VAL	41	11.863	2.833	4.395	1.00	1.06	SEG1
ATOM	606	HG22	VAL	41	10.940	1.335	4.290	1.00	1.05	SEG1
ATOM	607	HG23	VAL	41	10.654	2.456	5.622	1.00	1.11	SEG1
ATOM	608	C	VAL	41	9.411	4.070	1.424	1.00	0.37	SEG1
ATOM	609	O	VAL	41	9.028	3.416	0.473	1.00	0.39	SEG1
ATOM	610	N	TYR	42	8.958	5.278	1.655	1.00	0.37	SEG1
ATOM	611	HN	TYR	42	9.295	5.778	2.427	1.00	0.37	SEG1
ATOM	612	CA	TYR	42	7.941	5.909	0.746	1.00	0.40	SEG1
ATOM	613	HA	TYR	42	6.973	5.454	0.886	1.00	0.40	SEG1
ATOM	614	CB	TYR	42	7.896	7.390	1.168	1.00	0.43	SEG1
ATOM	615	HB1	TYR	42	8.104	8.016	0.312	1.00	0.53	SEG1
ATOM	616	HB2	TYR	42	8.641	7.570	1.926	1.00	0.47	SEG1
ATOM	617	CG	TYR	42	6.539	7.749	1.724	1.00	0.41	SEG1
ATOM	618	CD1	TYR	42	5.881	8.890	1.251	1.00	1.26	SEG1
ATOM	619	HD1	TYR	42	6.341	9.499	0.488	1.00	2.09	SEG1
ATOM	620	CD2	TYR	42	5.944	6.960	2.715	1.00	1.17	SEG1
ATOM	621	HD2	TYR	42	6.450	6.081	3.082	1.00	2.02	SEG1
ATOM	622	CE1	TYR	42	4.631	9.242	1.764	1.00	1.31	SEG1
ATOM	623	HE1	TYR	42	4.129	10.125	1.397	1.00	2.16	SEG1
ATOM	624	CE2	TYR	42	4.691	7.311	3.228	1.00	1.19	SEG1
ATOM	625	HE2	TYR	42	4.233	6.703	3.991	1.00	2.02	SEG1
ATOM	626	CZ	TYR	42	4.034	8.453	2.754	1.00	0.60	SEG1
ATOM	627	OH	TYR	42	2.799	8.799	3.261	1.00	0.75	SEG1
ATOM	628	HH	TYR	42	2.917	9.056	4.179	1.00	1.20	SEG1
ATOM	629	C	TYR	42	8.385	5.801	-0.722	1.00	0.43	SEG1
ATOM	630	O	TYR	42	7.621	5.411	-1.584	1.00	0.42	SEG1
ATOM	631	N	ARG	43	9.615	6.155	-1.004	1.00	0.49	SEG1
ATOM	632	HN	ARG	43	10.206	6.471	-0.288	1.00	0.51	SEG1
ATOM	633	CA	ARG	43	10.116	6.086	-2.411	1.00	0.54	SEG1
ATOM	634	HA	ARG	43	9.465	6.640	-3.069	1.00	0.56	SEG1
ATOM	635	CB	ARG	43	11.501	6.736	-2.380	1.00	0.66	SEG1
ATOM	636	HB1	ARG	43	11.994	6.578	-3.327	1.00	1.44	SEG1
ATOM	637	HB2	ARG	43	12.089	6.292	-1.589	1.00	1.20	SEG1
ATOM	638	CG	ARG	43	11.358	8.238	-2.128	1.00	0.88	SEG1
ATOM	639	HG1	ARG	43	10.875	8.398	-1.175	1.00	1.42	SEG1
ATOM	640	HG2	ARG	43	10.762	8.680	-2.914	1.00	1.62	SEG1
ATOM	641	CD	ARG	43	12.746	8.887	-2.107	1.00	0.77	SEG1
ATOM	642	HD1	ARG	43	13.387	8.381	-1.402	1.00	1.04	SEG1
ATOM	643	HD2	ARG	43	12.665	9.937	-1.859	1.00	1.12	SEG1
ATOM	644	NE	ARG	43	13.278	8.717	-3.497	1.00	1.91	SEG1
ATOM	645	HE	ARG	43	12.718	8.291	-4.180	1.00	2.62	SEG1
ATOM	646	CZ	ARG	43	14.490	9.118	-3.823	1.00	2.29	SEG1
ATOM	647	NH1	ARG	43	14.915	8.932	-5.042	1.00	3.44	SEG1
ATOM	648	NH11	ARG	43	14.323	8.491	-5.716	1.00	4.07	SEG1
ATOM	649	NH12	ARG	43	15.832	9.231	-5.303	1.00	3.79	SEG1
ATOM	650	NH2	ARG	43	15.279	9.704	-2.952	1.00	1.85	SEG1
ATOM	651	NH21	ARG	43	14.973	9.860	-2.014	1.00	1.42	SEG1
ATOM	652	NH22	ARG	43	16.195	9.997	-3.230	1.00	2.34	SEG1
ATOM	653	C	ARG	43	10.227	4.630	-2.874	1.00	0.50	SEG1
ATOM	654	O	ARG	43	9.908	4.304	-4.002	1.00	0.50	SEG1
ATOM	655	N	ALA	44	10.680	3.754	-2.011	1.00	0.51	SEG1
ATOM	656	HN	ALA	44	10.931	4.044	-1.108	1.00	0.52	SEG1
ATOM	657	CA	ALA	44	10.816	2.315	-2.400	1.00	0.52	SEG1
ATOM	658	HA	ALA	44	11.458	2.217	-3.261	1.00	0.57	SEG1
ATOM	659	CB	ALA	44	11.454	1.627	-1.191	1.00	0.54	SEG1
ATOM	660	HB1	ALA	44	10.679	1.303	-0.511	1.00	1.08	SEG1
ATOM	661	HB2	ALA	44	12.108	2.321	-0.686	1.00	1.23	SEG1
ATOM	662	HB3	ALA	44	12.023	0.771	-1.522	1.00	1.10	SEG1
ATOM	663	C	ALA	44	9.439	1.714	-2.690	1.00	0.45	SEG1
ATOM	664	O	ALA	44	9.255	0.999	-3.657	1.00	0.47	SEG1
ATOM	665	N	LEU	45	8.474	2.001	-1.855	1.00	0.41	SEG1
ATOM	666	HN	LEU	45	8.655	2.581	-1.084	1.00	0.42	SEG1
ATOM	667	CA	LEU	45	7.101	1.454	-2.069	1.00	0.38	SEG1
ATOM	668	HA	LEU	45	7.139	0.384	-2.197	1.00	0.41	SEG1
ATOM	669	CB	LEU	45	6.323	1.802	-0.801	1.00	0.37	SEG1
ATOM	670	HB1	LEU	45	5.278	1.582	-0.951	1.00	0.37	SEG1
ATOM	671	HB2	LEU	45	6.442	2.854	-0.581	1.00	0.37	SEG1
ATOM	672	CG	LEU	45	6.852	0.971	0.368	1.00	0.40	SEG1
ATOM	673	HG	LEU	45	7.928	1.054	0.410	1.00	0.41	SEG1
ATOM	674	CD1	LEU	45	6.251	1.494	1.673	1.00	0.42	SEG1
ATOM	675	HD11	LEU	45	5.183	1.332	1.658	1.00	0.91	SEG1
ATOM	676	HD12	LEU	45	6.455	2.550	1.764	1.00	1.16	SEG1
ATOM	677	HD13	LEU	45	6.692	0.968	2.507	1.00	1.10	SEG1
ATOM	678	CD2	LEU	45	6.457	-0.495	0.176	1.00	0.45	SEG1
ATOM	679	HD21	LEU	45	7.249	-1.016	-0.341	1.00	1.17	SEG1
ATOM	680	HD22	LEU	45	5.550	-0.551	-0.408	1.00	1.07	SEG1

ATOM	758	HG1	GLU	51	7.284	-1.423	-10.720	1.00	0.83	SEG1
ATOM	759	HG2	GLU	51	7.409	-2.470	-12.131	1.00	0.71	SEG1
ATOM	760	CD	GLU	51	8.343	-3.257	-10.361	1.00	0.92	SEG1
ATOM	761	OE1	GLU	51	8.013	-4.095	-9.533	1.00	1.57	SEG1
ATOM	762	OE2	GLU	51	9.502	-3.025	-10.664	1.00	1.58	SEG1
ATOM	763	C	GLU	51	3.422	-2.895	-11.347	1.00	0.46	SEG1
ATOM	764	O	GLU	51	2.956	-3.522	-12.279	1.00	0.50	SEG1
ATOM	765	N	SER	52	2.784	-2.789	-10.205	1.00	0.42	SEG1
ATOM	766	HN	SER	52	3.185	-2.283	-9.466	1.00	0.39	SEG1
ATOM	767	CA	SER	52	1.451	-3.445	-10.022	1.00	0.43	SEG1
ATOM	768	HA	SER	52	1.453	-4.420	-10.480	1.00	0.47	SEG1
ATOM	769	CB	SER	52	1.287	-3.588	-8.510	1.00	0.42	SEG1
ATOM	770	HB1	SER	52	0.312	-4.003	-8.293	1.00	1.06	SEG1
ATOM	771	HB2	SER	52	1.375	-2.622	-8.043	1.00	0.95	SEG1
ATOM	772	OG	SER	52	2.304	-4.445	-8.007	1.00	1.34	SEG1
ATOM	773	HG	SER	52	2.885	-3.922	-7.451	1.00	1.64	SEG1
ATOM	774	C	SER	52	0.316	-2.587	-10.604	1.00	0.42	SEG1
ATOM	775	O	SER	52	-0.808	-3.043	-10.713	1.00	0.46	SEG1
ATOM	776	N	GLY	53	0.591	-1.361	-10.984	1.00	0.41	SEG1
ATOM	777	HN	GLY	53	1.500	-1.009	-10.891	1.00	0.40	SEG1
ATOM	778	CA	GLY	53	-0.483	-0.497	-11.563	1.00	0.42	SEG1
ATOM	779	HA1	GLY	53	-1.350	-1.102	-11.778	1.00	0.45	SEG1
ATOM	780	HA2	GLY	53	-0.125	-0.048	-12.477	1.00	0.45	SEG1
ATOM	781	C	GLY	53	-0.876	0.610	-10.576	1.00	0.39	SEG1
ATOM	782	O	GLY	53	-1.904	1.244	-10.731	1.00	0.41	SEG1
ATOM	783	N	GLY	54	-0.068	0.858	-9.574	1.00	0.37	SEG1
ATOM	784	HN	GLY	54	0.758	0.348	-9.472	1.00	0.38	SEG1
ATOM	785	CA	GLY	54	-0.395	1.933	-8.594	1.00	0.35	SEG1
ATOM	786	HA1	GLY	54	-0.294	1.551	-7.589	1.00	0.35	SEG1
ATOM	787	HA2	GLY	54	-1.408	2.274	-8.754	1.00	0.35	SEG1
ATOM	788	C	GLY	54	0.578	3.091	-8.797	1.00	0.38	SEG1
ATOM	789	O	GLY	54	1.469	3.314	-7.999	1.00	0.40	SEG1
ATOM	790	N	SER	55	0.417	3.823	-9.869	1.00	0.41	SEG1
ATOM	791	HN	SER	55	-0.305	3.610	-10.497	1.00	0.41	SEG1
ATOM	792	CA	SER	55	1.338	4.969	-10.146	1.00	0.46	SEG1
ATOM	793	HA	SER	55	2.352	4.618	-10.258	1.00	0.50	SEG1
ATOM	794	CB	SER	55	0.846	5.576	-11.463	1.00	0.50	SEG1
ATOM	795	HB1	SER	55	0.676	4.784	-12.181	1.00	0.50	SEG1
ATOM	796	HB2	SER	55	1.587	6.254	-11.850	1.00	0.59	SEG1
ATOM	797	OG	SER	55	-0.363	6.286	-11.233	1.00	0.49	SEG1
ATOM	798	HG	SER	55	-0.161	7.225	-11.238	1.00	0.74	SEG1
ATOM	799	C	SER	55	1.248	6.001	-9.012	1.00	0.46	SEG1
ATOM	800	O	SER	55	0.277	6.023	-8.283	1.00	0.42	SEG1
ATOM	801	N	PRO	56	2.265	6.826	-8.889	1.00	0.54	SEG1
ATOM	802	CA	PRO	56	2.267	7.855	-7.818	1.00	0.56	SEG1
ATOM	803	HA	PRO	56	2.081	7.403	-6.858	1.00	0.55	SEG1
ATOM	804	CB	PRO	56	3.685	8.417	-7.861	1.00	0.66	SEG1
ATOM	805	HB1	PRO	56	4.314	7.904	-7.151	1.00	0.69	SEG1
ATOM	806	HB2	PRO	56	3.673	9.480	-7.659	1.00	0.68	SEG1
ATOM	807	CG	PRO	56	4.163	8.154	-9.252	1.00	0.70	SEG1
ATOM	808	HG1	PRO	56	5.233	8.017	-9.258	1.00	0.77	SEG1
ATOM	809	HG2	PRO	56	3.890	8.978	-9.898	1.00	0.72	SEG1
ATOM	810	CD	PRO	56	3.487	6.889	-9.711	1.00	0.64	SEG1
ATOM	811	HD2	PRO	56	3.240	6.952	-10.763	1.00	0.65	SEG1
ATOM	812	HD1	PRO	56	4.111	6.032	-9.515	1.00	0.67	SEG1
ATOM	813	C	PRO	56	1.241	8.958	-8.105	1.00	0.55	SEG1
ATOM	814	O	PRO	56	0.942	9.765	-7.244	1.00	0.57	SEG1
ATOM	815	N	ASP	57	0.695	9.001	-9.298	1.00	0.56	SEG1
ATOM	816	HN	ASP	57	0.940	8.342	-9.978	1.00	0.56	SEG1
ATOM	817	CA	ASP	57	-0.310	10.053	-9.621	1.00	0.60	SEG1
ATOM	818	HA	ASP	57	-0.082	10.966	-9.095	1.00	0.65	SEG1
ATOM	819	CB	ASP	57	-0.185	10.273	-11.129	1.00	0.68	SEG1
ATOM	820	HB1	ASP	57	-0.999	10.894	-11.470	1.00	1.04	SEG1
ATOM	821	HB2	ASP	57	-0.223	9.320	-11.636	1.00	1.22	SEG1
ATOM	822	CG	ASP	57	1.146	10.965	-11.444	1.00	1.17	SEG1
ATOM	823	OD1	ASP	57	1.650	10.762	-12.536	1.00	1.87	SEG1
ATOM	824	OD2	ASP	57	1.636	11.689	-10.591	1.00	1.84	SEG1
ATOM	825	C	ASP	57	-1.713	9.565	-9.264	1.00	0.57	SEG1
ATOM	826	O	ASP	57	-2.603	10.355	-9.006	1.00	0.66	SEG1
ATOM	827	N	VAL	58	-1.921	8.271	-9.259	1.00	0.49	SEG1
ATOM	828	HN	VAL	58	-1.192	7.654	-9.479	1.00	0.47	SEG1
ATOM	829	CA	VAL	58	-3.271	7.737	-8.930	1.00	0.50	SEG1
ATOM	830	HA	VAL	58	-3.985	8.545	-8.933	1.00	0.54	SEG1
ATOM	831	CB	VAL	58	-3.603	6.764	-10.083	1.00	0.51	SEG1
ATOM	832	HB	VAL	58	-3.274	7.198	-11.015	1.00	0.55	SEG1
ATOM	833	CG1	VAL	58	-2.905	5.406	-9.905	1.00	0.46	SEG1
ATOM	834	HG11	VAL	58	-3.317	4.899	-9.045	1.00	1.04	SEG1

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ATOM	835	HG12	VAL	58	-1.849	5.558	-9.760	1.00	1.10	SEG1
ATOM	836	HG13	VAL	58	-3.063	4.803	-10.786	1.00	1.17	SEG1
ATOM	837	CG2	VAL	58	-5.116	6.560	-10.141	1.00	0.64	SEG1
ATOM	838	HG21	VAL	58	-5.442	6.592	-11.169	1.00	1.17	SEG1
ATOM	839	HG22	VAL	58	-5.610	7.344	-9.585	1.00	1.24	SEG1
ATOM	840	HG23	VAL	58	-5.369	5.602	-9.712	1.00	1.13	SEG1
ATOM	841	C	VAL	58	-3.277	7.052	-7.549	1.00	0.45	SEG1
ATOM	842	O	VAL	58	-4.179	7.252	-6.757	1.00	0.49	SEG1
ATOM	843	N	LEU	59	-2.280	6.252	-7.261	1.00	0.40	SEG1
ATOM	844	HN	LEU	59	-1.564	6.110	-7.912	1.00	0.40	SEG1
ATOM	845	CA	LEU	59	-2.224	5.559	-5.937	1.00	0.36	SEG1
ATOM	846	HA	LEU	59	-3.151	5.698	-5.405	1.00	0.38	SEG1
ATOM	847	CB	LEU	59	-2.030	4.076	-6.269	1.00	0.34	SEG1
ATOM	848	HB1	LEU	59	-1.319	3.643	-5.581	1.00	0.32	SEG1
ATOM	849	HB2	LEU	59	-1.659	3.980	-7.279	1.00	0.35	SEG1
ATOM	850	CG	LEU	59	-3.366	3.339	-6.147	1.00	0.35	SEG1
ATOM	851	HG	LEU	59	-4.177	4.025	-6.348	1.00	0.37	SEG1
ATOM	852	CD1	LEU	59	-3.408	2.186	-7.150	1.00	0.36	SEG1
ATOM	853	HD11	LEU	59	-2.581	1.517	-6.964	1.00	1.01	SEG1
ATOM	854	HD12	LEU	59	-3.337	2.579	-8.153	1.00	1.15	SEG1
ATOM	855	HD13	LEU	59	-4.338	1.648	-7.040	1.00	1.03	SEG1
ATOM	856	CD2	LEU	59	-3.506	2.778	-4.730	1.00	0.34	SEG1
ATOM	857	HD21	LEU	59	-3.064	1.793	-4.688	1.00	0.99	SEG1
ATOM	858	HD22	LEU	59	-4.552	2.714	-4.469	1.00	0.92	SEG1
ATOM	859	HD23	LEU	59	-3.000	3.430	-4.033	1.00	1.10	SEG1
ATOM	860	C	LEU	59	-1.053	6.088	-5.106	1.00	0.34	SEG1
ATOM	861	O	LEU	59	0.087	6.060	-5.532	1.00	0.36	SEG1
ATOM	862	N	GLN	60	-1.331	6.565	-3.921	1.00	0.34	SEG1
ATOM	863	HN	GLN	60	-2.259	6.572	-3.605	1.00	0.36	SEG1
ATOM	864	CA	GLN	60	-0.248	7.099	-3.044	1.00	0.34	SEG1
ATOM	865	HA	GLN	60	0.721	6.849	-3.443	1.00	0.35	SEG1
ATOM	866	CB	GLN	60	-0.447	8.615	-3.053	1.00	0.39	SEG1
ATOM	867	HB1	GLN	60	0.187	9.067	-2.304	1.00	0.61	SEG1
ATOM	868	HB2	GLN	60	-1.480	8.843	-2.835	1.00	0.60	SEG1
ATOM	869	CG	GLN	60	-0.081	9.170	-4.430	1.00	0.80	SEG1
ATOM	870	HG1	GLN	60	-0.599	8.610	-5.194	1.00	1.24	SEG1
ATOM	871	HG2	GLN	60	0.986	9.084	-4.581	1.00	1.15	SEG1
ATOM	872	CD	GLN	60	-0.492	10.641	-4.513	1.00	1.13	SEG1
ATOM	873	OE1	GLN	60	-1.398	11.070	-3.827	1.00	1.43	SEG1
ATOM	874	NE2	GLN	60	0.141	11.438	-5.330	1.00	1.63	SEG1
ATOM	875	HE21	GLN	60	0.873	11.093	-5.882	1.00	1.87	SEG1
ATOM	876	HE22	GLN	60	-0.115	12.382	-5.390	1.00	1.98	SEG1
ATOM	877	C	GLN	60	-0.406	6.545	-1.626	1.00	0.30	SEG1
ATOM	878	O	GLN	60	-1.482	6.135	-1.231	1.00	0.30	SEG1
ATOM	879	N	MET	61	0.654	6.535	-0.857	1.00	0.30	SEG1
ATOM	880	HN	MET	61	1.508	6.874	-1.196	1.00	0.33	SEG1
ATOM	881	CA	MET	61	0.560	6.012	0.539	1.00	0.28	SEG1
ATOM	882	HA	MET	61	-0.211	5.264	0.609	1.00	0.27	SEG1
ATOM	883	CB	MET	61	1.926	5.387	0.820	1.00	0.31	SEG1
ATOM	884	HB1	MET	61	1.999	5.139	1.868	1.00	0.35	SEG1
ATOM	885	HB2	MET	61	2.704	6.090	0.560	1.00	0.35	SEG1
ATOM	886	CG	MET	61	2.084	4.116	-0.014	1.00	0.32	SEG1
ATOM	887	HG1	MET	61	1.880	4.339	-1.051	1.00	0.64	SEG1
ATOM	888	HG2	MET	61	1.389	3.368	0.337	1.00	0.57	SEG1
ATOM	889	SD	MET	61	3.773	3.494	0.150	1.00	0.71	SEG1
ATOM	890	CE	MET	61	4.507	4.495	-1.167	1.00	0.46	SEG1
ATOM	891	HE1	MET	61	5.558	4.643	-0.963	1.00	1.11	SEG1
ATOM	892	HE2	MET	61	4.013	5.453	-1.210	1.00	1.09	SEG1
ATOM	893	HE3	MET	61	4.385	3.987	-2.114	1.00	1.09	SEG1
ATOM	894	C	MET	61	0.284	7.164	1.505	1.00	0.30	SEG1
ATOM	895	O	MET	61	1.066	8.090	1.617	1.00	0.40	SEG1
ATOM	896	N	LEU	62	-0.829	7.119	2.191	1.00	0.29	SEG1
ATOM	897	HN	LEU	62	-1.445	6.365	2.073	1.00	0.35	SEG1
ATOM	898	CA	LEU	62	-1.168	8.220	3.144	1.00	0.32	SEG1
ATOM	899	HA	LEU	62	-1.099	9.175	2.645	1.00	0.36	SEG1
ATOM	900	CB	LEU	62	-2.618	7.961	3.556	1.00	0.33	SEG1
ATOM	901	HB1	LEU	62	-2.884	8.613	4.373	1.00	0.84	SEG1
ATOM	902	HB2	LEU	62	-2.727	6.930	3.865	1.00	0.78	SEG1
ATOM	903	CG	LEU	62	-3.536	8.239	2.364	1.00	1.02	SEG1
ATOM	904	HG	LEU	62	-3.166	7.713	1.496	1.00	1.76	SEG1
ATOM	905	CD1	LEU	62	-4.952	7.760	2.683	1.00	1.40	SEG1
ATOM	906	HD11	LEU	62	-4.962	6.682	2.744	1.00	1.72	SEG1
ATOM	907	HD12	LEU	62	-5.625	8.082	1.902	1.00	2.05	SEG1
ATOM	908	HD13	LEU	62	-5.270	8.178	3.626	1.00	1.83	SEG1
ATOM	909	CD2	LEU	62	-3.557	9.742	2.080	1.00	1.50	SEG1
ATOM	910	HD21	LEU	62	-4.406	9.980	1.456	1.00	2.18	SEG1
ATOM	911	HD22	LEU	62	-2.647	10.025	1.572	1.00	1.77	SEG1

ATOM	912	HD23	LEU	62	-3.632	10.284	3.011	1.00	1.93	SEG1
ATOM	913	C	LEU	62	-0.242	8.195	4.363	1.00	0.31	SEG1
ATOM	914	O	LEU	62	0.188	9.230	4.837	1.00	0.34	SEG1
ATOM	915	N	LYS	63	0.076	7.026	4.974	1.00	0.31	SEG1
ATOM	916	HN	LYS	63	-0.278	6.202	4.477	1.00	0.34	SEG1
ATOM	917	CA	LYS	63	0.984	6.956	6.062	1.00	0.33	SEG1
ATOM	918	HA	LYS	63	1.847	7.582	5.908	1.00	0.37	SEG1
ATOM	919	CB	LYS	63	0.154	7.496	7.235	1.00	0.37	SEG1
ATOM	920	HB1	LYS	63	-0.723	6.880	7.368	1.00	0.67	SEG1
ATOM	921	HB2	LYS	63	-0.150	8.511	7.023	1.00	0.76	SEG1
ATOM	922	CG	LYS	63	0.990	7.471	8.522	1.00	0.78	SEG1
ATOM	923	HG1	LYS	63	1.867	8.087	8.393	1.00	1.25	SEG1
ATOM	924	HG2	LYS	63	1.291	6.456	8.735	1.00	1.17	SEG1
ATOM	925	CD	LYS	63	0.157	8.011	9.686	1.00	0.83	SEG1
ATOM	926	HD1	LYS	63	-0.722	7.399	9.815	1.00	1.08	SEG1
ATOM	927	HD2	LYS	63	-0.139	9.026	9.471	1.00	1.00	SEG1
ATOM	928	CE	LYS	63	0.990	7.984	10.970	1.00	1.32	SEG1
ATOM	929	HE1	LYS	63	1.895	8.558	10.846	1.00	1.73	SEG1
ATOM	930	HE2	LYS	63	1.223	6.965	11.244	1.00	1.74	SEG1
ATOM	931	NZ	LYS	63	0.123	8.617	12.004	1.00	1.53	SEG1
ATOM	932	HZ1	LYS	63	-0.025	9.618	11.768	1.00	1.85	SEG1
ATOM	933	HZ2	LYS	63	0.583	8.544	12.934	1.00	1.93	SEG1
ATOM	934	HZ3	LYS	63	-0.796	8.130	12.032	1.00	1.91	SEG1
ATOM	935	C	LYS	63	1.419	5.514	6.336	1.00	0.29	SEG1
ATOM	936	O	LYS	63	0.778	4.566	5.924	1.00	0.28	SEG1
ATOM	937	N	ILE	64	2.499	5.357	7.056	1.00	0.28	SEG1
ATOM	938	HN	ILE	64	2.978	6.141	7.385	1.00	0.31	SEG1
ATOM	939	CA	ILE	64	2.990	3.993	7.402	1.00	0.27	SEG1
ATOM	940	HA	ILE	64	2.589	3.257	6.724	1.00	0.26	SEG1
ATOM	941	CB	ILE	64	4.521	4.064	7.279	1.00	0.29	SEG1
ATOM	942	HB	ILE	64	4.905	4.737	8.033	1.00	0.30	SEG1
ATOM	943	CG1	ILE	64	4.931	4.574	5.883	1.00	0.31	SEG1
ATOM	944	HG11	ILE	64	6.011	4.594	5.813	1.00	0.33	SEG1
ATOM	945	HG12	ILE	64	4.547	5.574	5.742	1.00	0.32	SEG1
ATOM	946	CG2	ILE	64	5.114	2.671	7.507	1.00	0.30	SEG1
ATOM	947	HG21	ILE	64	6.108	2.629	7.085	1.00	1.02	SEG1
ATOM	948	HG22	ILE	64	4.489	1.931	7.030	1.00	1.02	SEG1
ATOM	949	HG23	ILE	64	5.165	2.471	8.567	1.00	1.04	SEG1
ATOM	950	CD1	ILE	64	4.368	3.654	4.791	1.00	0.30	SEG1
ATOM	951	HD11	ILE	64	4.830	3.894	3.844	1.00	1.02	SEG1
ATOM	952	HD12	ILE	64	3.300	3.796	4.714	1.00	1.05	SEG1
ATOM	953	HD13	ILE	64	4.577	2.625	5.042	1.00	1.09	SEG1
ATOM	954	C	ILE	64	2.583	3.686	8.847	1.00	0.26	SEG1
ATOM	955	O	ILE	64	3.032	4.337	9.773	1.00	0.29	SEG1
ATOM	956	N	HIS	65	1.728	2.716	9.047	1.00	0.27	SEG1
ATOM	957	HN	HIS	65	1.371	2.214	8.284	1.00	0.28	SEG1
ATOM	958	CA	HIS	65	1.280	2.384	10.435	1.00	0.27	SEG1
ATOM	959	HA	HIS	65	1.387	3.243	11.077	1.00	0.30	SEG1
ATOM	960	CB	HIS	65	-0.200	2.025	10.296	1.00	0.28	SEG1
ATOM	961	HB1	HIS	65	-0.543	1.551	11.203	1.00	0.31	SEG1
ATOM	962	HB2	HIS	65	-0.329	1.350	9.464	1.00	0.29	SEG1
ATOM	963	CG	HIS	65	-0.999	3.275	10.051	1.00	0.30	SEG1
ATOM	964	ND1	HIS	65	-1.426	4.092	11.086	1.00	1.11	SEG1
ATOM	965	HD1	HIS	65	-1.262	3.949	12.041	1.00	1.90	SEG1
ATOM	966	CD2	HIS	65	-1.456	3.862	8.897	1.00	0.97	SEG1
ATOM	967	HD2	HIS	65	-1.297	3.479	7.900	1.00	1.89	SEG1
ATOM	968	CE1	HIS	65	-2.107	5.115	10.540	1.00	0.85	SEG1
ATOM	969	HE1	HIS	65	-2.560	5.914	11.109	1.00	1.46	SEG1
ATOM	970	NE2	HIS	65	-2.156	5.024	9.208	1.00	0.58	SEG1
ATOM	971	C	HIS	65	2.072	1.201	10.995	1.00	0.28	SEG1
ATOM	972	O	HIS	65	2.183	0.163	10.372	1.00	0.27	SEG1
ATOM	973	N	ARG	66	2.628	1.359	12.170	1.00	0.35	SEG1
ATOM	974	HN	ARG	66	2.527	2.208	12.647	1.00	0.41	SEG1
ATOM	975	CA	ARG	66	3.420	0.258	12.786	1.00	0.39	SEG1
ATOM	976	HA	ARG	66	3.636	-0.510	12.058	1.00	0.36	SEG1
ATOM	977	CB	ARG	66	4.712	0.930	13.235	1.00	0.49	SEG1
ATOM	978	HB1	ARG	66	5.293	0.239	13.821	1.00	0.54	SEG1
ATOM	979	HB2	ARG	66	4.477	1.800	13.831	1.00	0.51	SEG1
ATOM	980	CG	ARG	66	5.516	1.354	12.005	1.00	0.54	SEG1
ATOM	981	HG1	ARG	66	4.935	2.048	11.417	1.00	0.61	SEG1
ATOM	982	HG2	ARG	66	5.748	0.483	11.410	1.00	0.71	SEG1
ATOM	983	CD	ARG	66	6.815	2.029	12.448	1.00	0.64	SEG1
ATOM	984	HD1	ARG	66	7.385	2.345	11.592	1.00	1.19	SEG1
ATOM	985	HD2	ARG	66	7.396	1.353	13.060	1.00	0.78	SEG1
ATOM	986	NE	ARG	66	6.385	3.219	13.248	1.00	1.37	SEG1
ATOM	987	HE	ARG	66	6.366	3.156	14.225	1.00	1.94	SEG1
ATOM	988	CZ	ARG	66	6.041	4.354	12.669	1.00	2.05	SEG1

ATOM	989	NH1	ARG	66	5.696	5.367	13.415	1.00	2.83	SEG1
ATOM	990	HH11	ARG	66	5.693	5.277	14.411	1.00	3.08	SEG1
ATOM	991	HH12	ARG	66	5.435	6.234	12.991	1.00	3.45	SEG1
ATOM	992	NH2	ARG	66	6.027	4.487	11.362	1.00	2.58	SEG1
ATOM	993	HH21	ARG	66	6.277	3.723	10.771	1.00	2.48	SEG1
ATOM	994	HH22	ARG	66	5.764	5.362	10.956	1.00	3.40	SEG1
ATOM	995	C	ARG	66	2.674	-0.330	13.990	1.00	0.43	SEG1
ATOM	996	O	ARG	66	2.379	0.364	14.945	1.00	0.49	SEG1
ATOM	997	N	SER	67	2.379	-1.604	13.954	1.00	0.42	SEG1
ATOM	998	HN	SER	67	2.635	-2.141	13.175	1.00	0.39	SEG1
ATOM	999	CA	SER	67	1.662	-2.250	15.097	1.00	0.49	SEG1
ATOM	1000	HA	SER	67	1.880	-1.735	16.019	1.00	0.54	SEG1
ATOM	1001	CB	SER	67	0.177	-2.121	14.760	1.00	0.52	SEG1
ATOM	1002	HB1	SER	67	-0.042	-2.702	13.874	1.00	0.53	SEG1
ATOM	1003	HB2	SER	67	-0.064	-1.087	14.576	1.00	0.53	SEG1
ATOM	1004	OG	SER	67	-0.596	-2.593	15.856	1.00	0.57	SEG1
ATOM	1005	HG	SER	67	-0.742	-3.534	15.732	1.00	1.01	SEG1
ATOM	1006	C	SER	67	2.070	-3.721	15.193	1.00	0.49	SEG1
ATOM	1007	O	SER	67	2.287	-4.364	14.187	1.00	0.47	SEG1
ATOM	1008	N	ASP	68	2.182	-4.252	16.398	1.00	0.54	SEG1
ATOM	1009	HN	ASP	68	2.003	-3.695	17.185	1.00	0.56	SEG1
ATOM	1010	CA	ASP	68	2.584	-5.694	16.591	1.00	0.57	SEG1
ATOM	1011	HA	ASP	68	2.852	-5.851	17.625	1.00	0.61	SEG1
ATOM	1012	CB	ASP	68	1.298	-6.497	16.270	1.00	0.60	SEG1
ATOM	1013	HB1	ASP	68	0.449	-5.962	16.671	1.00	0.62	SEG1
ATOM	1014	HB2	ASP	68	1.349	-7.461	16.746	1.00	0.64	SEG1
ATOM	1015	CG	ASP	68	1.092	-6.685	14.758	1.00	0.56	SEG1
ATOM	1016	OD1	ASP	68	1.946	-7.284	14.125	1.00	1.22	SEG1
ATOM	1017	OD2	ASP	68	0.080	-6.221	14.260	1.00	1.18	SEG1
ATOM	1018	C	ASP	68	3.799	-6.044	15.691	1.00	0.53	SEG1
ATOM	1019	O	ASP	68	4.412	-5.146	15.145	1.00	0.49	SEG1
ATOM	1020	N	PRO	69	4.131	-7.314	15.552	1.00	0.55	SEG1
ATOM	1021	CA	PRO	69	5.288	-7.686	14.697	1.00	0.54	SEG1
ATOM	1022	HA	PRO	69	6.116	-7.018	14.871	1.00	0.53	SEG1
ATOM	1023	CB	PRO	69	5.649	-9.089	15.170	1.00	0.60	SEG1
ATOM	1024	HB1	PRO	69	6.420	-9.043	15.922	1.00	0.63	SEG1
ATOM	1025	HB2	PRO	69	5.974	-9.691	14.333	1.00	0.60	SEG1
ATOM	1026	CG	PRO	69	4.393	-9.652	15.760	1.00	0.64	SEG1
ATOM	1027	HG1	PRO	69	4.631	-10.242	16.631	1.00	0.69	SEG1
ATOM	1028	HG2	PRO	69	3.889	-10.267	15.027	1.00	0.64	SEG1
ATOM	1029	CD	PRO	69	3.503	-8.498	16.160	1.00	0.62	SEG1
ATOM	1030	HD2	PRO	69	2.509	-8.648	15.769	1.00	0.62	SEG1
ATOM	1031	HD1	PRO	69	3.477	-8.395	17.234	1.00	0.67	SEG1
ATOM	1032	C	PRO	69	4.905	-7.692	13.206	1.00	0.51	SEG1
ATOM	1033	O	PRO	69	5.179	-8.639	12.494	1.00	0.71	SEG1
ATOM	1034	N	GLN	70	4.290	-6.636	12.729	1.00	0.39	SEG1
ATOM	1035	HN	GLN	70	4.095	-5.881	13.315	1.00	0.48	SEG1
ATOM	1036	CA	GLN	70	3.901	-6.556	11.289	1.00	0.34	SEG1
ATOM	1037	HA	GLN	70	4.557	-7.162	10.678	1.00	0.34	SEG1
ATOM	1038	CB	GLN	70	2.465	-7.086	11.214	1.00	0.37	SEG1
ATOM	1039	HB1	GLN	70	2.064	-6.894	10.230	1.00	0.35	SEG1
ATOM	1040	HB2	GLN	70	1.859	-6.583	11.953	1.00	0.40	SEG1
ATOM	1041	CG	GLN	70	2.446	-8.593	11.481	1.00	0.42	SEG1
ATOM	1042	HG1	GLN	70	2.834	-8.790	12.467	1.00	0.45	SEG1
ATOM	1043	HG2	GLN	70	3.054	-9.098	10.747	1.00	0.41	SEG1
ATOM	1044	CD	GLN	70	1.008	-9.109	11.399	1.00	0.47	SEG1
ATOM	1045	OE1	GLN	70	0.070	-8.372	11.633	1.00	0.63	SEG1
ATOM	1046	NE2	GLN	70	0.794	-10.353	11.070	1.00	0.47	SEG1
ATOM	1047	HE21	GLN	70	1.552	-10.946	10.880	1.00	0.53	SEG1
ATOM	1048	HE22	GLN	70	-0.122	-10.695	11.011	1.00	0.51	SEG1
ATOM	1049	C	GLN	70	3.944	-5.090	10.849	1.00	0.31	SEG1
ATOM	1050	O	GLN	70	3.883	-4.195	11.671	1.00	0.36	SEG1
ATOM	1051	N	LEU	71	4.042	-4.831	9.570	1.00	0.28	SEG1
ATOM	1052	HN	LEU	71	4.087	-5.567	8.921	1.00	0.31	SEG1
ATOM	1053	CA	LEU	71	4.081	-3.413	9.097	1.00	0.26	SEG1
ATOM	1054	HA	LEU	71	4.186	-2.741	9.933	1.00	0.25	SEG1
ATOM	1055	CB	LEU	71	5.316	-3.329	8.200	1.00	0.27	SEG1
ATOM	1056	HB1	LEU	71	5.213	-4.021	7.378	1.00	0.29	SEG1
ATOM	1057	HB2	LEU	71	6.196	-3.582	8.776	1.00	0.28	SEG1
ATOM	1058	CG	LEU	71	5.462	-1.908	7.650	1.00	0.27	SEG1
ATOM	1059	HG	LEU	71	4.550	-1.621	7.146	1.00	0.28	SEG1
ATOM	1060	CD1	LEU	71	5.737	-0.936	8.801	1.00	0.28	SEG1
ATOM	1061	HD11	LEU	71	4.801	-0.569	9.194	1.00	1.03	SEG1
ATOM	1062	HD12	LEU	71	6.325	-0.106	8.437	1.00	1.04	SEG1
ATOM	1063	HD13	LEU	71	6.280	-1.447	9.581	1.00	1.09	SEG1
ATOM	1064	CD2	LEU	71	6.628	-1.868	6.663	1.00	0.31	SEG1
ATOM	1065	HD21	LEU	71	6.253	-1.997	5.659	1.00	1.05	SEG1

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ATOM	1066	HD22	LEU	71	7.320	-2.662	6.894	1.00	1.05	SEG1
ATOM	1067	HD23	LEU	71	7.132	-0.917	6.740	1.00	1.09	SEG1
ATOM	1068	C	LEU	71	2.806	-3.091	8.310	1.00	0.25	SEG1
ATOM	1069	O	LEU	71	2.418	-3.825	7.421	1.00	0.27	SEG1
ATOM	1070	N	ILE	72	2.149	-2.005	8.639	1.00	0.23	SEG1
ATOM	1071	HN	ILE	72	2.478	-1.433	9.362	1.00	0.23	SEG1
ATOM	1072	CA	ILE	72	0.892	-1.642	7.917	1.00	0.23	SEG1
ATOM	1073	HA	ILE	72	0.559	-2.464	7.305	1.00	0.25	SEG1
ATOM	1074	CB	ILE	72	-0.139	-1.356	9.017	1.00	0.24	SEG1
ATOM	1075	HB	ILE	72	0.210	-0.540	9.631	1.00	0.24	SEG1
ATOM	1076	CG1	ILE	72	-0.335	-2.600	9.886	1.00	0.27	SEG1
ATOM	1077	HG11	ILE	72	0.624	-2.961	10.222	1.00	0.27	SEG1
ATOM	1078	HG12	ILE	72	-0.829	-3.364	9.312	1.00	0.30	SEG1
ATOM	1079	CG2	ILE	72	-1.481	-0.977	8.384	1.00	0.26	SEG1
ATOM	1080	HG21	ILE	72	-1.631	-1.553	7.483	1.00	1.07	SEG1
ATOM	1081	HG22	ILE	72	-1.481	0.076	8.143	1.00	1.08	SEG1
ATOM	1082	HG23	ILE	72	-2.279	-1.186	9.081	1.00	0.93	SEG1
ATOM	1083	CD1	ILE	72	-1.194	-2.239	11.097	1.00	0.30	SEG1
ATOM	1084	HD11	ILE	72	-0.584	-1.745	11.838	1.00	1.01	SEG1
ATOM	1085	HD12	ILE	72	-1.617	-3.139	11.519	1.00	1.05	SEG1
ATOM	1086	HD13	ILE	72	-1.991	-1.578	10.786	1.00	1.01	SEG1
ATOM	1087	C	ILE	72	1.114	-0.390	7.061	1.00	0.22	SEG1
ATOM	1088	O	ILE	72	1.602	0.618	7.535	1.00	0.22	SEG1
ATOM	1089	N	VAL	73	0.737	-0.446	5.811	1.00	0.23	SEG1
ATOM	1090	HN	VAL	73	0.333	-1.269	5.462	1.00	0.24	SEG1
ATOM	1091	CA	VAL	73	0.895	0.741	4.916	1.00	0.23	SEG1
ATOM	1092	HA	VAL	73	1.357	1.557	5.450	1.00	0.24	SEG1
ATOM	1093	CB	VAL	73	1.799	0.273	3.771	1.00	0.26	SEG1
ATOM	1094	HB	VAL	73	1.328	-0.551	3.255	1.00	1.09	SEG1
ATOM	1095	CG1	VAL	73	2.023	1.427	2.790	1.00	1.38	SEG1
ATOM	1096	HG11	VAL	73	2.971	1.295	2.290	1.00	1.97	SEG1
ATOM	1097	HG12	VAL	73	2.027	2.363	3.329	1.00	2.06	SEG1
ATOM	1098	HG13	VAL	73	1.229	1.436	2.059	1.00	1.87	SEG1
ATOM	1099	CG2	VAL	73	3.150	-0.178	4.334	1.00	1.35	SEG1
ATOM	1100	HG21	VAL	73	3.022	-1.098	4.885	1.00	1.90	SEG1
ATOM	1101	HG22	VAL	73	3.540	0.585	4.991	1.00	1.99	SEG1
ATOM	1102	HG23	VAL	73	3.842	-0.340	3.521	1.00	1.95	SEG1
ATOM	1103	C	VAL	73	-0.483	1.152	4.386	1.00	0.22	SEG1
ATOM	1104	O	VAL	73	-1.230	0.325	3.896	1.00	0.23	SEG1
ATOM	1105	N	GLN	74	-0.833	2.412	4.485	1.00	0.22	SEG1
ATOM	1106	HN	GLN	74	-0.219	3.066	4.891	1.00	0.24	SEG1
ATOM	1107	CA	GLN	74	-2.175	2.849	3.989	1.00	0.22	SEG1
ATOM	1108	HA	GLN	74	-2.902	2.065	4.130	1.00	0.22	SEG1
ATOM	1109	CB	GLN	74	-2.544	4.062	4.843	1.00	0.25	SEG1
ATOM	1110	HB1	GLN	74	-1.839	4.859	4.658	1.00	0.26	SEG1
ATOM	1111	HB2	GLN	74	-2.516	3.793	5.888	1.00	0.26	SEG1
ATOM	1112	CG	GLN	74	-3.952	4.536	4.468	1.00	0.28	SEG1
ATOM	1113	HG1	GLN	74	-4.634	3.699	4.510	1.00	0.28	SEG1
ATOM	1114	HG2	GLN	74	-3.940	4.938	3.466	1.00	0.28	SEG1
ATOM	1115	CD	GLN	74	-4.419	5.618	5.447	1.00	0.35	SEG1
ATOM	1116	OE1	GLN	74	-3.790	5.858	6.459	1.00	0.45	SEG1
ATOM	1117	NE2	GLN	74	-5.513	6.281	5.189	1.00	0.49	SEG1
ATOM	1118	HE21	GLN	74	-6.026	6.083	4.377	1.00	0.62	SEG1
ATOM	1119	HE22	GLN	74	-5.823	6.976	5.806	1.00	0.55	SEG1
ATOM	1120	C	GLN	74	-2.091	3.243	2.513	1.00	0.23	SEG1
ATOM	1121	O	GLN	74	-1.270	4.053	2.130	1.00	0.26	SEG1
ATOM	1122	N	LEU	75	-2.936	2.678	1.683	1.00	0.22	SEG1
ATOM	1123	HN	LEU	75	-3.589	2.029	2.018	1.00	0.22	SEG1
ATOM	1124	CA	LEU	75	-2.905	3.023	0.229	1.00	0.24	SEG1
ATOM	1125	HA	LEU	75	-2.012	3.580	-0.002	1.00	0.27	SEG1
ATOM	1126	CB	LEU	75	-2.884	1.681	-0.516	1.00	0.24	SEG1
ATOM	1127	HB1	LEU	75	-2.825	1.861	-1.580	1.00	0.30	SEG1
ATOM	1128	HB2	LEU	75	-3.792	1.138	-0.296	1.00	0.28	SEG1
ATOM	1129	CG	LEU	75	-1.673	0.841	-0.080	1.00	0.27	SEG1
ATOM	1130	HG	LEU	75	-1.797	0.552	0.954	1.00	0.62	SEG1
ATOM	1131	CD1	LEU	75	-1.597	-0.414	-0.948	1.00	0.68	SEG1
ATOM	1132	HD11	LEU	75	-1.949	-0.184	-1.943	1.00	1.14	SEG1
ATOM	1133	HD12	LEU	75	-2.214	-1.187	-0.517	1.00	1.42	SEG1
ATOM	1134	HD13	LEU	75	-0.574	-0.755	-0.998	1.00	1.28	SEG1
ATOM	1135	CD2	LEU	75	-0.372	1.642	-0.241	1.00	0.52	SEG1
ATOM	1136	HD21	LEU	75	-0.490	2.365	-1.035	1.00	1.19	SEG1
ATOM	1137	HD22	LEU	75	0.437	0.970	-0.484	1.00	1.30	SEG1
ATOM	1138	HD23	LEU	75	-0.147	2.154	0.684	1.00	1.09	SEG1
ATOM	1139	C	LEU	75	-4.152	3.830	-0.150	1.00	0.25	SEG1
ATOM	1140	O	LEU	75	-5.206	3.672	0.436	1.00	0.26	SEG1
ATOM	1141	N	ARG	76	-4.034	4.693	-1.127	1.00	0.29	SEG1
ATOM	1142	HN	ARG	76	-3.171	4.798	-1.580	1.00	0.32	SEG1

FIG. 2 (15 of 35)

ATOM	1143	CA	ARG	76	-5.203	5.520	-1.557	1.00	0.32	SEG1
ATOM	1144	HA	ARG	76	-6.060	5.318	-0.935	1.00	0.32	SEG1
ATOM	1145	CB	ARG	76	-4.748	6.970	-1.372	1.00	0.37	SEG1
ATOM	1146	HB1	ARG	76	-3.882	7.157	-1.989	1.00	0.64	SEG1
ATOM	1147	HB2	ARG	76	-4.494	7.138	-0.335	1.00	0.71	SEG1
ATOM	1148	CG	ARG	76	-5.876	7.920	-1.781	1.00	0.83	SEG1
ATOM	1149	HG1	ARG	76	-6.743	7.735	-1.164	1.00	1.20	SEG1
ATOM	1150	HG2	ARG	76	-6.130	7.750	-2.817	1.00	1.15	SEG1
ATOM	1151	CD	ARG	76	-5.423	9.370	-1.597	1.00	0.84	SEG1
ATOM	1152	HD1	ARG	76	-4.576	9.583	-2.230	1.00	1.07	SEG1
ATOM	1153	HD2	ARG	76	-5.177	9.558	-0.560	1.00	1.13	SEG1
ATOM	1154	NE	ARG	76	-6.597	10.197	-2.018	1.00	1.21	SEG1
ATOM	1155	HE	ARG	76	-7.484	9.782	-2.069	1.00	1.76	SEG1
ATOM	1156	CZ	ARG	76	-6.467	11.473	-2.321	1.00	1.51	SEG1
ATOM	1157	NH1	ARG	76	-7.523	12.150	-2.683	1.00	2.15	SEG1
ATOM	1158	HH11	ARG	76	-8.415	11.700	-2.726	1.00	2.53	SEG1
ATOM	1159	HH12	ARG	76	-7.440	13.119	-2.917	1.00	2.50	SEG1
ATOM	1160	NH2	ARG	76	-5.302	12.078	-2.268	1.00	1.85	SEG1
ATOM	1161	HH21	ARG	76	-4.483	11.576	-1.994	1.00	1.91	SEG1
ATOM	1162	HH22	ARG	76	-5.235	13.048	-2.505	1.00	2.40	SEG1
ATOM	1163	C	ARG	76	-5.526	5.241	-3.029	1.00	0.32	SEG1
ATOM	1164	O	ARG	76	-4.637	5.099	-3.845	1.00	0.37	SEG1
ATOM	1165	N	PHE	77	-6.790	5.165	-3.376	1.00	0.32	SEG1
ATOM	1166	HN	PHE	77	-7.492	5.289	-2.701	1.00	0.34	SEG1
ATOM	1167	CA	PHE	77	-7.160	4.895	-4.800	1.00	0.34	SEG1
ATOM	1168	HA	PHE	77	-6.278	4.660	-5.377	1.00	0.34	SEG1
ATOM	1169	CB	PHE	77	-8.093	3.683	-4.759	1.00	0.35	SEG1
ATOM	1170	HB1	PHE	77	-8.486	3.502	-5.746	1.00	0.38	SEG1
ATOM	1171	HB2	PHE	77	-8.908	3.872	-4.076	1.00	0.38	SEG1
ATOM	1172	CG	PHE	77	-7.324	2.467	-4.306	1.00	0.34	SEG1
ATOM	1173	CD1	PHE	77	-6.691	1.653	-5.253	1.00	1.33	SEG1
ATOM	1174	HD1	PHE	77	-6.750	1.900	-6.303	1.00	2.22	SEG1
ATOM	1175	CD2	PHE	77	-7.248	2.149	-2.946	1.00	1.14	SEG1
ATOM	1176	HD2	PHE	77	-7.737	2.778	-2.216	1.00	2.04	SEG1
ATOM	1177	CE1	PHE	77	-5.981	0.521	-4.839	1.00	1.37	SEG1
ATOM	1178	HE1	PHE	77	-5.493	-0.107	-5.570	1.00	2.28	SEG1
ATOM	1179	CE2	PHE	77	-6.537	1.017	-2.531	1.00	1.13	SEG1
ATOM	1180	HE2	PHE	77	-6.478	0.772	-1.480	1.00	2.01	SEG1
ATOM	1181	CZ	PHE	77	-5.904	0.203	-3.477	1.00	0.45	SEG1
ATOM	1182	HZ	PHE	77	-5.356	-0.671	-3.157	1.00	0.53	SEG1
ATOM	1183	C	PHE	77	-7.881	6.105	-5.399	1.00	0.41	SEG1
ATOM	1184	O	PHE	77	-8.479	6.894	-4.693	1.00	0.45	SEG1
ATOM	1185	N	CYS	78	-7.815	6.257	-6.696	1.00	0.48	SEG1
ATOM	1186	HN	CYS	78	-7.319	5.608	-7.233			

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ATOM	1220	HH11	ARG	80	-15.716	-1.465	-13.685	1.00	4.32	SEG1
ATOM	1221	HH12	ARG	80	-16.832	-1.001	-14.926	1.00	4.40	SEG1
ATOM	1222	NH2	ARG	80	-15.953	1.276	-15.255	1.00	2.85	SEG1
ATOM	1223	HH21	ARG	80	-15.533	2.181	-15.325	1.00	2.56	SEG1
ATOM	1224	HH22	ARG	80	-16.729	1.042	-15.843	1.00	3.51	SEG1
ATOM	1225	C	ARG	80	-9.537	2.062	-12.685	1.00	0.43	SEG1
ATOM	1226	O	ARG	80	-9.369	0.900	-12.366	1.00	0.41	SEG1
ATOM	1227	N	GLN	81	-8.919	2.584	-13.715	1.00	0.45	SEG1
ATOM	1228	HN	GLN	81	-9.082	3.521	-13.954	1.00	0.50	SEG1
ATOM	1229	CA	GLN	81	-7.978	1.757	-14.538	1.00	0.45	SEG1
ATOM	1230	HA	GLN	81	-8.518	0.952	-15.012	1.00	0.47	SEG1
ATOM	1231	CB	GLN	81	-7.437	2.708	-15.611	1.00	0.51	SEG1
ATOM	1232	HB1	GLN	81	-6.520	2.310	-16.019	1.00	0.53	SEG1
ATOM	1233	HB2	GLN	81	-7.248	3.676	-15.172	1.00	0.51	SEG1
ATOM	1234	CG	GLN	81	-8.474	2.849	-16.729	1.00	0.57	SEG1
ATOM	1235	HG1	GLN	81	-9.329	3.394	-16.358	1.00	0.93	SEG1
ATOM	1236	HG2	GLN	81	-8.787	1.867	-17.054	1.00	1.00	SEG1
ATOM	1237	CD	GLN	81	-7.863	3.607	-17.909	1.00	1.27	SEG1
ATOM	1238	OE1	GLN	81	-6.983	4.425	-17.732	1.00	1.91	SEG1
ATOM	1239	NE2	GLN	81	-8.299	3.368	-19.116	1.00	2.02	SEG1
ATOM	1240	HE21	GLN	81	-9.010	2.708	-19.259	1.00	2.34	SEG1
ATOM	1241	HE22	GLN	81	-7.917	3.849	-19.880	1.00	2.61	SEG1
ATOM	1242	C	GLN	81	-6.834	1.182	-13.678	1.00	0.41	SEG1
ATOM	1243	O	GLN	81	-6.637	-0.018	-13.664	1.00	0.40	SEG1
ATOM	1244	N	PRO	82	-6.113	2.035	-12.975	1.00	0.40	SEG1
ATOM	1245	CA	PRO	82	-5.002	1.541	-12.119	1.00	0.39	SEG1
ATOM	1246	HA	PRO	82	-4.301	0.972	-12.709	1.00	0.41	SEG1
ATOM	1247	CB	PRO	82	-4.332	2.818	-11.614	1.00	0.42	SEG1
ATOM	1248	HB1	PRO	82	-3.488	3.078	-12.233	1.00	0.47	SEG1
ATOM	1249	HB2	PRO	82	-4.023	2.698	-10.584	1.00	0.42	SEG1
ATOM	1250	CG	PRO	82	-5.382	3.868	-11.719	1.00	0.43	SEG1
ATOM	1251	HG1	PRO	82	-4.921	4.825	-11.895	1.00	0.47	SEG1
ATOM	1252	HG2	PRO	82	-5.973	3.894	-10.814	1.00	0.41	SEG1
ATOM	1253	CD	PRO	82	-6.244	3.499	-12.896	1.00	0.44	SEG1
ATOM	1254	HD2	PRO	82	-7.265	3.790	-12.715	1.00	0.45	SEG1
ATOM	1255	HD1	PRO	82	-5.868	3.956	-13.798	1.00	0.48	SEG1
ATOM	1256	C	PRO	82	-5.539	0.688	-10.964	1.00	0.35	SEG1
ATOM	1257	O	PRO	82	-4.823	-0.122	-10.404	1.00	0.38	SEG1
ATOM	1258	N	CYS	83	-6.793	0.847	-10.614	1.00	0.31	SEG1
ATOM	1259	HN	CYS	83	-7.356	1.496	-11.086	1.00	0.32	SEG1
ATOM	1260	CA	CYS	83	-7.370	0.024	-9.507	1.00	0.30	SEG1
ATOM	1261	HA	CYS	83	-6.782	0.134	-8.608	1.00	0.31	SEG1
ATOM	1262	CB	CYS	83	-8.783	0.568	-9.282	1.00	0.34	SEG1
ATOM	1263	HB1	CYS	83	-9.409	0.301	-10.121	1.00	0.66	SEG1
ATOM	1264	HB2	CYS	83	-8.745	1.643	-9.188	1.00	0.77	SEG1
ATOM	1265	SG	CYS	83	-9.469	-0.147	-7.767	1.00	0.99	SEG1
ATOM	1266	HG	CYS	83	-10.419	-0.228	-7.881	1.00	1.67	SEG1
ATOM	1267	C	CYS	83	-7.422	-1.444	-9.938	1.00	0.29	SEG1
ATOM	1268	O	CYS	83	-7.020	-2.331	-9.209	1.00	0.28	SEG1
ATOM	1269	N	GLY	84	-7.908	-1.700	-11.129	1.00	0.30	SEG1
ATOM	1270	HN	GLY	84	-8.216	-0.962	-11.696	1.00	0.32	SEG1
ATOM	1271	CA	GLY	84	-7.984	-3.104	-11.635	1.00	0.31	SEG1
ATOM	1272	HA1	GLY	84	-8.409	-3.109	-12.627	1.00	0.33	SEG1
ATOM	1273	HA2	GLY	84	-8.606	-3.691	-10.973	1.00	0.31	SEG1
ATOM	1274	C	GLY	84	-6.579	-3.706	-11.684	1.00	0.30	SEG1
ATOM	1275	O	GLY	84	-6.374	-4.861	-11.358	1.00	0.30	SEG1
ATOM	1276	N	ARG	85	-5.609	-2.928	-12.090	1.00	0.31	SEG1
ATOM	1277	HN	ARG	85	-5.804	-2.002	-12.347	1.00	0.32	SEG1
ATOM	1278	CA	ARG	85	-4.209	-3.444	-12.158	1.00	0.32	SEG1
ATOM	1279	HA	ARG	85	-4.174	-4.358	-12.731	1.00	0.34	SEG1
ATOM	1280	CB	ARG	85	-3.404	-2.351	-12.866	1.00	0.35	SEG1
ATOM	1281	HB1	ARG	85	-2.351	-2.578	-12.797	1.00	0.70	SEG1
ATOM	1282	HB2	ARG	85	-3.600	-1.398	-12.396	1.00	0.87	SEG1
ATOM	1283	CG	ARG	85	-3.814	-2.286	-14.339	1.00	0.87	SEG1
ATOM	1284	HG1	ARG	85	-4.866	-2.058	-14.411	1.00	1.41	SEG1
ATOM	1285	HG2	ARG	85	-3.618	-3.239	-14.810	1.00	1.40	SEG1
ATOM	1286	CD	ARG	85	-3.009	-1.193	-15.048	1.00	1.12	SEG1
ATOM	1287	HD1	ARG	85	-1.958	-1.439	-15.049	1.00	1.59	SEG1
ATOM	1288	HD2	ARG	85	-3.174	-0.237	-14.569	1.00	1.64	SEG1
ATOM	1289	NE	ARG	85	-3.530	-1.173	-16.451	1.00	1.63	SEG1
ATOM	1290	HE	ARG	85	-4.064	-1.928	-16.777	1.00	2.16	SEG1
ATOM	1291	CZ	ARG	85	-3.292	-0.158	-17.259	1.00	2.06	SEG1
ATOM	1292	NH1	ARG	85	-3.780	-0.179	-18.469	1.00	2.88	SEG1
ATOM	1293	HH11	ARG	85	-4.327	-0.959	-18.773	1.00	3.33	SEG1
ATOM	1294	HH12	ARG	85	-3.608	0.584	-19.091	1.00	3.28	SEG1
ATOM	1295	NH2	ARG	85	-2.572	0.873	-16.877	1.00	2.26	SEG1
ATOM	1296	HH21	ARG	85	-2.186	0.908	-15.956	1.00	2.26	SEG1

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ATOM	1297	HH22	ARG	85	-2.411	-1.628	-17.513	1.00	2.81	SEG1
ATOM	1298	C	ARG	85	-3.672	-1.680	-10.741	1.00	0.29	SEG1
ATOM	1299	O	ARG	85	-2.915	-4.600	-10.501	1.00	0.29	SEG1
ATOM	1300	N	PHE	86	-4.055	-1.843	-9.808	1.00	0.27	SEG1
ATOM	1301	HN	PHE	86	-4.661	-2.106	-10.038	1.00	0.28	SEG1
ATOM	1302	CA	PHE	86	-3.563	-2.999	-8.400	1.00	0.26	SEG1
ATOM	1303	HA	PHE	86	-2.493	-2.880	-8.360	1.00	0.28	SEG1
ATOM	1304	CB	PHE	86	-4.245	-1.859	-7.626	1.00	0.27	SEG1
ATOM	1305	HB1	PHE	86	-5.317	-1.950	-7.727	1.00	0.28	SEG1
ATOM	1306	HB2	PHE	86	-3.927	-0.911	-8.034	1.00	0.28	SEG1
ATOM	1307	CG	PHE	86	-3.875	-1.918	-6.159	1.00	0.25	SEG1
ATOM	1308	CD1	PHE	86	-4.611	-2.735	-5.292	1.00	1.23	SEG1
ATOM	1309	HD1	PHE	86	-5.430	-3.327	-5.675	1.00	2.16	SEG1
ATOM	1310	CD2	PHE	86	-2.813	-1.149	-5.663	1.00	1.24	SEG1
ATOM	1311	HD2	PHE	86	-2.242	-0.517	-6.330	1.00	2.17	SEG1
ATOM	1312	CE1	PHE	86	-4.286	-2.788	-3.932	1.00	1.23	SEG1
ATOM	1313	HE1	PHE	86	-4.855	-3.420	-3.265	1.00	2.16	SEG1
ATOM	1314	CE2	PHE	86	-2.488	-1.203	-4.300	1.00	1.24	SEG1
ATOM	1315	HE2	PHE	86	-1.671	-0.609	-3.914	1.00	2.17	SEG1
ATOM	1316	CZ	PHE	86	-3.225	-2.022	-3.435	1.00	0.26	SEG1
ATOM	1317	HZ	PHE	86	-2.974	-2.063	-2.385	1.00	0.28	SEG1
ATOM	1318	C	PHE	86	-3.973	-4.364	-7.822	1.00	0.25	SEG1
ATOM	1319	O	PHE	86	-3.152	-5.079	-7.278	1.00	0.27	SEG1
ATOM	1320	N	LEU	87	-5.229	-4.726	-7.926	1.00	0.25	SEG1
ATOM	1321	HN	LEU	87	-5.875	-4.131	-8.358	1.00	0.25	SEG1
ATOM	1322	CA	LEU	87	-5.673	-6.045	-7.366	1.00	0.25	SEG1
ATOM	1323	HA	LEU	87	-5.279	-6.160	-6.369	1.00	0.26	SEG1
ATOM	1324	CB	LEU	87	-7.210	-5.988	-7.297	1.00	0.26	SEG1
ATOM	1325	HB1	LEU	87	-7.506	-5.182	-6.641	1.00	0.27	SEG1
ATOM	1326	HB2	LEU	87	-7.580	-6.922	-6.899	1.00	0.28	SEG1
ATOM	1327	CG	LEU	87	-7.818	-5.758	-6.885	1.00	0.28	SEG1
ATOM	1328	HG	LEU	87	-7.108	-5.253	-9.314	1.00	0.28	SEG1
ATOM	1329	CD1	LEU	87	-8.194	-7.100	-9.314	1.00	0.32	SEG1
ATOM	1330	HD11	LEU	87	-9.169	-7.402	-8.963	1.00	1.08	SEG1
ATOM	1331	HD12	LEU	87	-7.465	-7.846	-9.036	1.00	1.03	SEG1
ATOM	1332	HD13	LEU	87	-8.215	-7.000	-10.389	1.00	1.05	SEG1
ATOM	1333	CD2	LEU	87	-9.078	-4.897	-8.551	1.00	0.30	SEG1
ATOM	1334	HD21	LEU	87	-8.798	-3.887	-8.293	1.00	1.03	SEG1
ATOM	1335	HD22	LEU	87	-9.711	-5.304	-7.778	1.00	1.02	SEG1
ATOM	1336	HD23	LEU	87	-9.612	-4.893	-9.490	1.00	1.08	SEG1
ATOM	1337	C	LEU	87	-5.191	-7.214	-8.241	1.00	0.25	SEG1
ATOM	1338	O	LEU	87	-4.769	-8.240	-7.732	1.00	0.27	SEG1
ATOM	1339	N	ARG	88	-5.240	-7.072	-9.544	1.00	0.26	SEG1
ATOM	1340	HN	ARG	88	-5.573	-6.23				

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ATOM	1451	HN	LEU	95	2.023	-13.923	-5.914	1.00	0.31	SEG1
ATOM	1452	CA	LEU	95	3.364	-15.612	-5.978	1.00	0.34	SEG1
ATOM	1453	HA	LEU	95	3.152	-16.510	-5.423	1.00	0.39	SEG1
ATOM	1454	CB	LEU	95	2.804	-15.722	-7.395	1.00	0.35	SEG1
ATOM	1455	HB1	LEU	95	3.329	-16.496	-7.933	1.00	0.40	SEG1
ATOM	1456	HB2	LEU	95	2.926	-14.777	-7.907	1.00	0.33	SEG1
ATOM	1457	CG	LEU	95	1.318	-16.077	-7.312	1.00	0.39	SEG1
ATOM	1458	HG	LEU	95	0.885	-15.596	-6.446	1.00	0.39	SEG1
ATOM	1459	CD1	LEU	95	0.591	-15.596	-8.574	1.00	0.39	SEG1
ATOM	1460	HD11	LEU	95	-0.039	-16.386	-8.955	1.00	1.13	SEG1
ATOM	1461	HD12	LEU	95	1.314	-15.318	-9.326	1.00	1.12	SEG1
ATOM	1462	HD13	LEU	95	-0.020	-14.738	-8.328	1.00	1.04	SEG1
ATOM	1463	CD2	LEU	95	1.170	-17.596	-7.176	1.00	0.55	SEG1
ATOM	1464	HD21	LEU	95	1.790	-18.086	-7.912	1.00	1.27	SEG1
ATOM	1465	HD22	LEU	95	0.137	-17.873	-7.332	1.00	1.12	SEG1
ATOM	1466	HD23	LEU	95	1.478	-17.901	-6.186	1.00	1.12	SEG1
ATOM	1467	C	LEU	95	4.867	-15.330	-5.990	1.00	0.33	SEG1
ATOM	1468	O	LEU	95	5.677	-16.193	-5.713	1.00	0.38	SEG1
ATOM	1469	N	ARG	96	5.235	-14.111	-6.293	1.00	0.32	SEG1
ATOM	1470	HN	ARG	96	4.553	-13.438	-6.497	1.00	0.31	SEG1
ATOM	1471	CA	ARG	96	6.681	-13.734	-6.311	1.00	0.39	SEG1
ATOM	1472	HA	ARG	96	7.212	-14.310	-7.051	1.00	0.43	SEG1
ATOM	1473	CB	ARG	96	6.715	-12.247	-6.679	1.00	0.46	SEG1
ATOM	1474	HB1	ARG	96	6.207	-11.676	-5.917	1.00	1.01	SEG1
ATOM	1475	HB2	ARG	96	6.223	-12.099	-7.629	1.00	0.84	SEG1
ATOM	1476	CG	ARG	96	8.170	-11.783	-6.775	1.00	1.29	SEG1
ATOM	1477	HG1	ARG	96	8.680	-12.356	-7.535	1.00	1.76	SEG1
ATOM	1478	HG2	ARG	96	8.657	-11.934	-5.824	1.00	2.06	SEG1
ATOM	1479	CD	ARG	96	8.216	-10.299	-7.143	1.00	1.52	SEG1
ATOM	1480	HD1	ARG	96	9.233	-9.938	-7.124	1.00	1.96	SEG1
ATOM	1481	HD2	ARG	96	7.599	-9.726	-6.465	1.00	1.67	SEG1
ATOM	1482	NE	ARG	96	7.673	-10.230	-8.534	1.00	2.44	SEG1
ATOM	1483	HE	ARG	96	6.756	-9.913	-8.674	1.00	2.95	SEG1
ATOM	1484	CZ	ARG	96	8.400	-10.582	-9.576	1.00	3.12	SEG1
ATOM	1485	NH1	ARG	96	7.881	-10.497	-10.771	1.00	4.14	SEG1
ATOM	1486	HH11	ARG	96	6.944	-10.169	-10.887	1.00	4.47	SEG1
ATOM	1487	HH12	ARG	96	8.421	-10.762	-11.571	1.00	4.77	SEG1
ATOM	1488	NH2	ARG	96	9.632	-11.019	-9.440	1.00	3.27	SEG1
ATOM	1489	HH21	ARG	96	10.046	-11.094	-8.534	1.00	2.90	SEG1
ATOM	1490	HH22	ARG	96	10.159	-11.279	-10.249	1.00	4.07	SEG1
ATOM	1491	C	ARG	96	7.289	-13.955	-4.922	1.00	0.40	SEG1
ATOM	1492	O	ARG	96	8.434	-14.341	-4.790	1.00	0.46	SEG1
ATOM	1493	N	ALA	97	6.523	-13.714	-3.884	1.00	0.40	SEG1
ATOM	1494	HN	ALA	97	5.603	-13.403	-4.021	1.00	0.38	SEG1
ATOM	1495	CA	ALA	97	7.048	-13.910	-2.495	1.00	0.46	SEG1
ATOM	1496	HA	ALA	97	7.867	-13.237	-2.302	1.00	0.51	SEG1
ATOM	1497	CB	ALA	97	5.874	-13.592	-1.568	1.00	0.52	SEG1
ATOM	1498	HB1	ALA	97	6.194	-13.678	-0.541	1.00	1.09	SEG1
ATOM	1499	HB2	ALA	97	5.071	-14.289	-1.752	1.00	1.19	SEG1
ATOM	1500	HB3	ALA	97	5.530	-12.586	-1.755	1.00	1.12	SEG1
ATOM	1501	C	ALA	97	7.491	-15.361	-2.312	1.00	0.46	SEG1
ATOM	1502	O	ALA	97	8.513	-15.635	-1.711	1.00	0.50	SEG1
ATOM	1503	N	ALA	98	6.739	-16.288	-2.845	1.00	0.46	SEG1
ATOM	1504	HN	ALA	98	5.928	-16.034	-3.337	1.00	0.43	SEG1
ATOM	1505	CA	ALA	98	7.128	-17.728	-2.728	1.00	0.51	SEG1
ATOM	1506	HA	ALA	98	7.177	-18.023	-1.692	1.00	0.56	SEG1
ATOM	1507	CB	ALA	98	6.029	-18.510	-3.452	1.00	0.55	SEG1
ATOM	1508	HB1	ALA	98	6.167	-18.422	-4.520	1.00	1.20	SEG1
ATOM	1509	HB2	ALA	98	5.064	-18.110	-3.180	1.00	1.10	SEG1
ATOM	1510	HB3	ALA	98	6.081	-19.551	-3.167	1.00	1.06	SEG1
ATOM	1511	C	ALA	98	8.484	-17.938	-3.411	1.00	0.52	SEG1
ATOM	1512	O	ALA	98	9.337	-18.652	-2.922	1.00	0.57	SEG1
ATOM	1513	N	LEU	99	8.684	-17.296	-4.536	1.00	0.50	SEG1
ATOM	1514	HN	LEU	99	7.978	-16.717	-4.895	1.00	0.47	SEG1
ATOM	1515	CA	LEU	99	9.983	-17.421	-5.265	1.00	0.55	SEG1
ATOM	1516	HA	LEU	99	10.159	-18.448	-5.546	1.00	0.60	SEG1
ATOM	1517	CB	LEU	99	9.840	-16.549	-6.517	1.00	0.57	SEG1
ATOM	1518	HB1	LEU	99	9.677	-15.524	-6.223	1.00	0.54	SEG1
ATOM	1519	HB2	LEU	99	9.001	-16.895	-7.101	1.00	0.58	SEG1
ATOM	1520	CG	LEU	99	11.118	-16.638	-7.356	1.00	0.66	SEG1
ATOM	1521	HG	LEU	99	11.953	-16.885	-6.717	1.00	0.67	SEG1
ATOM	1522	CD1	LEU	99	10.956	-17.726	-8.419	1.00	0.73	SEG1
ATOM	1523	HD11	LEU	99	11.553	-17.476	-9.284	1.00	1.16	SEG1
ATOM	1524	HD12	LEU	99	9.917	-17.796	-8.708	1.00	1.14	SEG1
ATOM	1525	HD13	LEU	99	11.282	-18.673	-8.017	1.00	1.42	SEG1
ATOM	1526	CD2	LEU	99	11.376	-15.291	-8.036	1.00	0.70	SEG1
ATOM	1527	HD21	LEU	99	12.164	-15.401	-8.767	1.00	1.16	SEG1

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ATOM	1528	HD22	LEU	99	11.673	-14.565	-7.293	1.00	1.32	SEG1
ATOM	1529	HD23	LEU	99	10.474	-14.956	-8.527	1.00	1.12	SEG1
ATOM	1530	C	LEU	99	11.121	-16.906	-4.378	1.00	0.54	SEG1
ATOM	1531	O	LEU	99	12.204	-17.457	-4.362	1.00	0.59	SEG1
ATOM	1532	N	GLN	100	10.881	-15.843	-3.648	1.00	0.50	SEG1
ATOM	1533	HN	GLN	100	9.999	-15.415	-3.686	1.00	0.47	SEG1
ATOM	1534	CA	GLN	100	11.949	-15.274	-2.767	1.00	0.52	SEG1
ATOM	1535	HA	GLN	100	12.788	-14.937	-3.355	1.00	0.57	SEG1
ATOM	1536	CB	GLN	100	11.300	-14.084	-2.049	1.00	0.51	SEG1
ATOM	1537	HB1	GLN	100	11.958	-13.734	-1.269	1.00	0.55	SEG1
ATOM	1538	HB2	GLN	100	10.363	-14.397	-1.614	1.00	0.47	SEG1
ATOM	1539	CG	GLN	100	11.043	-12.947	-3.042	1.00	0.54	SEG1
ATOM	1540	HG1	GLN	100	10.565	-12.126	-2.529	1.00	1.00	SEG1
ATOM	1541	HG2	GLN	100	10.400	-13.301	-3.835	1.00	1.14	SEG1
ATOM	1542	CD	GLN	100	12.369	-12.468	-3.637	1.00	1.30	SEG1
ATOM	1543	OE1	GLN	100	13.079	-11.692	-3.030	1.00	1.83	SEG1
ATOM	1544	NE2	GLN	100	12.739	-12.919	-4.803	1.00	2.26	SEG1
ATOM	1545	HE21	GLN	100	12.169	-13.557	-5.282	1.00	2.51	SEG1
ATOM	1546	HE22	GLN	100	13.583	-12.620	-5.199	1.00	2.99	SEG1
ATOM	1547	C	GLN	100	12.393	-16.320	-1.747	1.00	0.53	SEG1
ATOM	1548	O	GLN	100	13.567	-16.453	-1.455	1.00	0.57	SEG1
ATOM	1549	N	ARG	101	11.464	-17.068	-1.213	1.00	0.51	SEG1
ATOM	1550	HN	ARG	101	10.526	-16.941	-1.475	1.00	0.50	SEG1
ATOM	1551	CA	ARG	101	11.832	-18.118	-0.213	1.00	0.55	SEG1
ATOM	1552	HA	ARG	101	12.287	-17.668	0.656	1.00	0.54	SEG1
ATOM	1553	CB	ARG	101	10.511	-18.789	0.173	1.00	0.58	SEG1
ATOM	1554	HB1	ARG	101	10.061	-19.231	-0.702	1.00	0.62	SEG1
ATOM	1555	HB2	ARG	101	9.841	-18.048	0.587	1.00	0.56	SEG1
ATOM	1556	CG	ARG	101	10.772	-19.878	1.216	1.00	0.64	SEG1
ATOM	1557	HG1	ARG	101	11.219	-19.436	2.094	1.00	0.62	SEG1
ATOM	1558	HG2	ARG	101	11.444	-20.617	0.803	1.00	0.67	SEG1
ATOM	1559	CD	ARG	101	9.450	-20.545	1.601	1.00	0.70	SEG1
ATOM	1560	HD1	ARG	101	9.077	-21.143	0.784	1.00	1.17	SEG1
ATOM	1561	HD2	ARG	101	8.724	-19.797	1.885	1.00	1.21	SEG1
ATOM	1562	NE	ARG	101	9.785	-21.423	2.766	1.00	1.42	SEG1
ATOM	1563	HE	ARG	101	10.714	-21.706	2.902	1.00	1.98	SEG1
ATOM	1564	CZ	ARG	101	8.861	-21.815	3.621	1.00	1.81	SEG1
ATOM	1565	NH1	ARG	101	9.209	-22.561	4.633	1.00	2.84	SEG1
ATOM	1566	HH11	ARG	101	10.165	-22.827	4.753	1.00	3.38	SEG1
ATOM	1567	HH12	ARG	101	8.519	-22.866	5.290	1.00	3.17	SEG1
ATOM	1568	NH2	ARG	101	7.599	-21.479	3.475	1.00	1.50	SEG1
ATOM	1569	HH21	ARG	101	7.310	-20.915	2.704	1.00	1.32	SEG1
ATOM	1570	HH22	ARG	101	6.923	-21.791	4.143	1.00	1.89	SEG1
ATOM	1571	C	ARG	101	12.794	-19.130	-0.855	1.00	0.63	SEG1
ATOM	1572	O	ARG	101	13.839	-19.433	-0.312	1.00	0.66	SEG1
ATOM	1573	N	SER	102	12.450	-19.639	-2.014	1.00	0.67	SEG1
ATOM	1574	HN	SER	102	11.606	-19.368	-2.433	1.00	0.65	SEG1
ATOM	1575	CA	SER	102	13.350	-20.619	-2.703	1.00	0.76	SEG1
ATOM	1576	HA	SER	102	13.558	-21.458	-2.058	1.00	0.81	SEG1
ATOM	1577	CB	SER	102	12.571	-21.083	-3.935	1.00	0.80	SEG1
ATOM	1578	HB1	SER	102	13.223	-21.667	-4.571	1.00	1.16	SEG1
ATOM	1579	HB2	SER	102	12.213	-20.227	-4.482	1.00	1.31	SEG1
ATOM	1580	OG	SER	102	11.462	-21.870	-3.520	1.00	1.48	SEG1
ATOM	1581	HG	SER	102	10.933	-21.343	-2.918	1.00	1.81	SEG1
ATOM	1582	C	SER	102	14.652	-19.929	-3.125	1.00	0.78	SEG1
ATOM	1583	O	SER	102	15.727	-20.489	-3.014	1.00	0.85	SEG1
ATOM	1584	N	LEU	103	14.556	-18.713	-3.599	1.00	0.74	SEG1
ATOM	1585	HN	LEU	103	13.676	-18.287	-3.667	1.00	0.69	SEG1
ATOM	1586	CA	LEU	103	15.779	-17.963	-4.027	1.00	0.79	SEG1
ATOM	1587	HA	LEU	103	16.362	-18.562	-4.710	1.00	0.86	SEG1
ATOM	1588	CB	LEU	103	15.262	-16.712	-4.742	1.00	0.77	SEG1
ATOM	1589	HB1	LEU	103	15.875	-15.865	-4.473	1.00	0.80	SEG1
ATOM	1590	HB2	LEU	103	14.240	-16.525	-4.448	1.00	0.71	SEG1
ATOM	1591	CG	LEU	103	15.328	-16.923	-6.257	1.00	0.83	SEG1
ATOM	1592	HG	LEU	103	16.340	-17.176	-6.532	1.00	0.90	SEG1
ATOM	1593	CD1	LEU	103	14.391	-18.063	-6.668	1.00	0.82	SEG1
ATOM	1594	HD11	LEU	103	13.618	-18.179	-5.926	1.00	1.34	SEG1
ATOM	1595	HD12	LEU	103	14.955	-18.980	-6.746	1.00	1.29	SEG1
ATOM	1596	HD13	LEU	103	13.943	-17.836	-7.623	1.00	1.23	SEG1
ATOM	1597	CD2	LEU	103	14.909	-15.636	-6.970	1.00	0.84	SEG1
ATOM	1598	HD21	LEU	103	14.934	-15.792	-8.038	1.00	1.29	SEG1
ATOM	1599	HD22	LEU	103	15.591	-14.841	-6.706	1.00	1.31	SEG1
ATOM	1600	HD23	LEU	103	13.907	-15.366	-6.668	1.00	1.28	SEG1
ATOM	1601	C	LEU	103	16.623	-17.580	-2.813	1.00	0.79	SEG1
ATOM	1602	O	LEU	103	17.820	-17.386	-2.917	1.00	0.87	SEG1
ATOM	1603	N	ALA	104	16.009	-17.465	-1.662	1.00	0.72	SEG1
ATOM	1604	HN	ALA	104	15.044	-17.623	-1.611	1.00	0.67	SEG1

ATOM	1682	HA	HIS	110	18.501	-20.067	4.529	1.00	0.94	SEG1
ATOM	1683	CB	HIS	110	17.997	-19.298	6.479	1.00	0.95	SEG1
ATOM	1684	HB1	HIS	110	17.393	-20.124	6.825	1.00	1.35	SEG1
ATOM	1685	HB2	HIS	110	17.611	-18.375	6.885	1.00	1.16	SEG1
ATOM	1686	CG	HIS	110	19.416	-19.492	6.934	1.00	1.24	SEG1
ATOM	1687	ND1	HIS	110	20.255	-18.426	7.216	1.00	2.20	SEG1
ATOM	1688	HD1	HIS	110	20.025	-17.476	7.152	1.00	2.77	SEG1
ATOM	1689	CD2	HIS	110	20.157	-20.624	7.162	1.00	1.69	SEG1
ATOM	1690	HD2	HIS	110	19.802	-21.636	7.034	1.00	2.16	SEG1
ATOM	1691	CE1	HIS	110	21.442	-18.934	7.595	1.00	2.66	SEG1
ATOM	1692	HE1	HIS	110	22.295	-18.335	7.877	1.00	3.53	SEG1
ATOM	1693	NE2	HIS	110	21.436	-20.270	7.580	1.00	2.33	SEG1
ATOM	1694	C	HIS	110	16.503	-19.253	4.460	1.00	0.83	SEG1
ATOM	1695	O	HIS	110	16.013	-20.249	3.962	1.00	1.08	SEG1
ATOM	1696	N	SER	111	15.820	-18.141	4.587	1.00	0.68	SEG1
ATOM	1697	HN	SER	111	16.249	-17.353	4.984	1.00	0.77	SEG1
ATOM	1698	CA	SER	111	14.400	-18.053	4.121	1.00	0.61	SEG1
ATOM	1699	HA	SER	111	14.329	-18.326	3.080	1.00	0.63	SEG1
ATOM	1700	CB	SER	111	13.618	-19.051	4.982	1.00	0.66	SEG1
ATOM	1701	HB1	SER	111	13.856	-18.888	6.025	1.00	1.14	SEG1
ATOM	1702	HB2	SER	111	13.889	-20.056	4.708	1.00	1.08	SEG1
ATOM	1703	OG	SER	111	12.225	-18.866	4.767	1.00	1.38	SEG1
ATOM	1704	HG	SER	111	11.755	-19.295	5.485	1.00	1.53	SEG1
ATOM	1705	C	SER	111	13.862	-16.637	4.341	1.00	0.51	SEG1
ATOM	1706	O	SER	111	13.860	-16.132	5.449	1.00	0.54	SEG1
ATOM	1707	N	VAL	112	13.392	-16.000	3.299	1.00	0.47	SEG1
ATOM	1708	HN	VAL	112	13.395	-16.433	2.420	1.00	0.51	SEG1
ATOM	1709	CA	VAL	112	12.834	-14.620	3.448	1.00	0.42	SEG1
ATOM	1710	HA	VAL	112	12.698	-14.386	4.492	1.00	0.41	SEG1
ATOM	1711	CB	VAL	112	13.882	-13.674	2.833	1.00	0.54	SEG1
ATOM	1712	HB	VAL	112	14.788	-13.721	3.420	1.00	0.61	SEG1
ATOM	1713	CG1	VAL	112	14.195	-14.094	1.390	1.00	0.61	SEG1
ATOM	1714	HG11	VAL	112	13.434	-14.775	1.038	1.00	1.32	SEG1
ATOM	1715	HG12	VAL	112	15.158	-14.584	1.361	1.00	1.02	SEG1
ATOM	1716	HG13	VAL	112	14.219	-13.221	0.754	1.00	1.21	SEG1
ATOM	1717	CG2	VAL	112	13.344	-12.234	2.844	1.00	0.58	SEG1
ATOM	1718	HG21	VAL	112	12.561	-12.147	3.587	1.00	1.18	SEG1
ATOM	1719	HG22	VAL	112	12.943	-11.993	1.870	1.00	1.21	SEG1
ATOM	1720	HG23	VAL	112	14.145	-11.552	3.082	1.00	1.13	SEG1
ATOM	1721	C	VAL	112	11.491	-14.519	2.704	1.00	0.40	SEG1
ATOM	1722	O	VAL	112	11.400	-13.850	1.693	1.00	0.46	SEG1
ATOM	1723	N	PRO	113	10.483	-15.181	3.228	1.00	0.41	SEG1
ATOM	1724	CA	PRO	113	9.151	-15.136	2.587	1.00	0.50	SEG1
ATOM	1725	HA	PRO	113	9.232	-15.296	1.525	1.00	0.57	SEG1
ATOM	1726	CB	PRO	113	8.398	-16.294	3.234	1.00	0.64	SEG1
ATOM	1727	HB1	PRO	113	8.486	-17.184	2.631	1.00	0.72	SEG1
ATOM	1728	HB2	PRO	113	7.357	-16.032	3.370	1.00	0.71	SEG1
ATOM	1729	CG	PRO	113	9.061	-16.507	4.558	1.00	0.62	SEG1
ATOM	1730	HG1	PRO	113	9.056	-17.557	4.807	1.00	0.75	SEG1
ATOM	1731	HG2	PRO	113	8.542	-15.944	5.321	1.00	0.66	SEG1
ATOM	1732	CD	PRO	113	10.483	-16.022	4.438	1.00	0.47	SEG1
ATOM	1733	HD2	PRO	113	10.757	-15.440	5.308	1.00	0.47	SEG1
ATOM	1734	HD1	PRO	113	11.158	-16.854	4.311	1.00	0.50	SEG1
ATOM	1735	C	PRO	113	8.458	-13.803	2.886	1.00	0.47	SEG1
ATOM	1736	O	PRO	113	7.929	-13.597	3.962	1.00	0.53	SEG1
ATOM	1737	N	LEU	114	8.447	-12.905	1.934	1.00	0.51	SEG1
ATOM	1738	HN	LEU	114	8.872	-13.102	1.073	1.00	0.59	SEG1
ATOM	1739	CA	LEU	114	7.778	-11.586	2.147	1.00	0.54	SEG1
ATOM	1740	HA	LEU	114	7.662	-11.378	3.199	1.00	0.50	SEG1
ATOM	1741	CB	LEU	114	8.709	-10.559	1.501	1.00	0.62	SEG1
ATOM	1742	HB1	LEU	114	8.194	-9.615	1.409	1.00	1.24	SEG1
ATOM	1743	HB2	LEU	114	9.001	-10.907	0.521	1.00	1.15	SEG1
ATOM	1744	CG	LEU	114	9.953	-10.375	2.368	1.00	1.00	SEG1
ATOM	1745	HG	LEU	114	10.362	-11.341	2.624	1.00	1.82	SEG1
ATOM	1746	CD1	LEU	114	10.995	-9.566	1.594	1.00	1.41	SEG1
ATOM	1747	HD11	LEU	114	10.713	-8.523	1.593	1.00	1.88	SEG1
ATOM	1748	HD12	LEU	114	11.047	-9.926	0.578	1.00	1.82	SEG1
ATOM	1749	HD13	LEU	114	11.960	-9.677	2.066	1.00	2.03	SEG1
ATOM	1750	CD2	LEU	114	9.572	-9.617	3.643	1.00	1.66	SEG1
ATOM	1751	HD21	LEU	114	8.980	-10.256	4.279	1.00	2.15	SEG1
ATOM	1752	HD22	LEU	114	8.998	-8.740	3.382	1.00	2.23	SEG1
ATOM	1753	HD23	LEU	114	10.469	-9.319	4.166	1.00	2.01	SEG1
ATOM	1754	C	LEU	114	6.427	-11.590	1.442	1.00	0.65	SEG1
ATOM	1755	O	LEU	114	6.353	-11.590	0.228	1.00	0.86	SEG1
ATOM	1756	N	GLN	115	5.359	-11.604	2.194	1.00	0.58	SEG1
ATOM	1757	HN	GLN	115	5.447	-11.613	3.170	1.00	0.51	SEG1
ATOM	1758	CA	GLN	115	4.008	-11.628	1.570	1.00	0.71	SEG1

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ATOM	1759	HA	GLN	115	4.095	-11.648	0.495	1.00	0.84	SEG1
ATOM	1760	CB	GLN	115	3.368	-12.929	2.062	1.00	0.86	SEG1
ATOM	1761	HB1	GLN	115	3.309	-12.918	3.139	1.00	0.94	SEG1
ATOM	1762	HB2	GLN	115	3.972	-13.768	1.742	1.00	1.29	SEG1
ATOM	1763	CG	GLN	115	1.959	-13.065	1.477	1.00	1.26	SEG1
ATOM	1764	HG1	GLN	115	2.018	-13.077	0.398	1.00	1.92	SEG1
ATOM	1765	HG2	GLN	115	1.358	-12.225	1.793	1.00	1.92	SEG1
ATOM	1766	CD	GLN	115	1.312	-14.366	1.963	1.00	0.81	SEG1
ATOM	1767	OE1	GLN	115	1.964	-15.205	2.553	1.00	1.12	SEG1
ATOM	1768	NE2	GLN	115	0.045	-14.571	1.730	1.00	0.81	SEG1
ATOM	1769	HE21	GLN	115	-0.481	-13.897	1.248	1.00	0.83	SEG1
ATOM	1770	HE22	GLN	115	-0.382	-15.399	2.035	1.00	1.18	SEG1
ATOM	1771	C	GLN	115	3.189	-10.414	2.011	1.00	0.56	SEG1
ATOM	1772	O	GLN	115	3.430	-9.822	3.053	1.00	0.46	SEG1
ATOM	1773	N	LEU	116	2.224	-10.047	1.210	1.00	0.59	SEG1
ATOM	1774	HN	LEU	116	2.068	-10.548	0.382	1.00	0.70	SEG1
ATOM	1775	CA	LEU	116	1.362	-8.878	1.533	1.00	0.48	SEG1
ATOM	1776	HA	LEU	116	1.742	-8.340	2.382	1.00	0.42	SEG1
ATOM	1777	CB	LEU	116	1.414	-7.993	0.284	1.00	0.53	SEG1
ATOM	1778	HB1	LEU	116	0.809	-7.113	0.443	1.00	0.52	SEG1
ATOM	1779	HB2	LEU	116	1.027	-8.545	-0.560	1.00	0.62	SEG1
ATOM	1780	CG	LEU	116	2.859	-7.567	-0.008	1.00	0.55	SEG1
ATOM	1781	HG	LEU	116	3.464	-8.446	-0.174	1.00	0.59	SEG1
ATOM	1782	CD1	LEU	116	2.880	-6.691	-1.261	1.00	0.69	SEG1
ATOM	1783	HD11	LEU	116	2.685	-5.665	-0.986	1.00	1.24	SEG1
ATOM	1784	HD12	LEU	116	2.119	-7.030	-1.950	1.00	1.29	SEG1
ATOM	1785	HD13	LEU	116	3.849	-6.760	-1.732	1.00	1.07	SEG1
ATOM	1786	CD2	LEU	116	3.422	-6.771	1.175	1.00	0.48	SEG1
ATOM	1787	HD21	LEU	116	2.704	-6.026	1.484	1.00	1.17	SEG1
ATOM	1788	HD22	LEU	116	4.339	-6.284	0.876	1.00	1.11	SEG1
ATOM	1789	HD23	LEU	116	3.623	-7.442	1.998	1.00	1.09	SEG1
ATOM	1790	C	LEU	116	-0.071	-9.349	1.783	1.00	0.48	SEG1
ATOM	1791	O	LEU	116	-0.511	-10.339	1.229	1.00	0.53	SEG1
ATOM	1792	N	GLU	117	-0.801	-8.643	2.604	1.00	0.43	SEG1
ATOM	1793	HN	GLU	117	-0.421	-7.846	3.030	1.00	0.40	SEG1
ATOM	1794	CA	GLU	117	-2.217	-9.030	2.884	1.00	0.44	SEG1
ATOM	1795	HA	GLU	117	-2.535	-9.813	2.214	1.00	0.49	SEG1
ATOM	1796	CB	GLU	117	-2.220	-9.533	4.327	1.00	0.47	SEG1
ATOM	1797	HB1	GLU	117	-3.228	-9.790	4.617	1.00	0.74	SEG1
ATOM	1798	HB2	GLU	117	-1.844	-8.760	4.979	1.00	0.64	SEG1
ATOM	1799	CG	GLU	117	-1.329	-10.776	4.433	1.00	0.95	SEG1
ATOM	1800	HG1	GLU	117	-0.322	-10.520	4.137	1.00	1.24	SEG1
ATOM	1801	HG2	GLU	117	-1.709	-11.544	3			

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ATOM	1836	CD	ARG	119	-7.300	-5.177	8.835	1.00	0.84	SEG1
ATOM	1837	HD1	ARG	119	-6.660	-4.314	8.916	1.00	1.40	SEG1
ATOM	1838	HD2	ARG	119	-6.730	-6.086	8.975	1.00	1.09	SEG1
ATOM	1839	NE	ARG	119	-8.402	-5.094	9.846	1.00	1.43	SEG1
ATOM	1840	HE	ARG	119	-9.323	-4.949	9.545	1.00	1.78	SEG1
ATOM	1841	CZ	ARG	119	-8.156	-5.211	11.137	1.00	2.13	SEG1
ATOM	1842	NH1	ARG	119	-9.146	-5.133	11.984	1.00	2.72	SEG1
ATOM	1843	HH11	ARG	119	-10.078	-4.987	11.652	1.00	2.79	SEG1
ATOM	1844	HH12	ARG	119	-8.973	-5.220	12.964	1.00	3.33	SEG1
ATOM	1845	NH2	ARG	119	-6.938	-5.401	11.591	1.00	2.69	SEG1
ATOM	1846	HH21	ARG	119	-6.165	-5.461	10.961	1.00	2.58	SEG1
ATOM	1847	HH22	ARG	119	-6.783	-5.485	12.576	1.00	3.46	SEG1
ATOM	1848	C	ARG	119	-8.453	-4.207	4.667	1.00	0.31	SEG1
ATOM	1849	O	ARG	119	-8.041	-3.090	4.921	1.00	0.30	SEG1
ATOM	1850	N	ALA	120	-9.593	-4.399	4.059	1.00	0.33	SEG1
ATOM	1851	HN	ALA	120	-9.885	-5.314	3.846	1.00	0.34	SEG1
ATOM	1852	CA	ALA	120	-10.432	-3.231	3.658	1.00	0.33	SEG1
ATOM	1853	HA	ALA	120	-9.842	-2.327	3.679	1.00	0.33	SEG1
ATOM	1854	CB	ALA	120	-10.859	-3.532	2.221	1.00	0.35	SEG1
ATOM	1855	HB1	ALA	120	-11.394	-4.469	2.194	1.00	1.06	SEG1
ATOM	1856	HB2	ALA	120	-9.984	-3.598	1.592	1.00	1.10	SEG1
ATOM	1857	HB3	ALA	120	-11.501	-2.740	1.863	1.00	1.05	SEG1
ATOM	1858	C	ALA	120	-11.665	-3.096	4.562	1.00	0.38	SEG1
ATOM	1859	O	ALA	120	-12.261	-2.038	4.649	1.00	0.42	SEG1
ATOM	1860	N	GLY	121	-12.054	-4.154	5.230	1.00	0.40	SEG1
ATOM	1861	HN	GLY	121	-11.562	-4.996	5.142	1.00	0.40	SEG1
ATOM	1862	CA	GLY	121	-13.250	-4.083	6.122	1.00	0.46	SEG1
ATOM	1863	HA1	GLY	121	-14.119	-3.816	5.540	1.00	0.49	SEG1
ATOM	1864	HA2	GLY	121	-13.085	-3.338	6.887	1.00	0.48	SEG1
ATOM	1865	C	GLY	121	-13.481	-5.446	6.776	1.00	0.49	SEG1
ATOM	1866	O	GLY	121	-12.594	-6.003	7.396	1.00	0.50	SEG1
ATOM	1867	N	ALA	122	-14.666	-5.986	6.640	1.00	0.53	SEG1
ATOM	1868	HN	ALA	122	-15.361	-5.515	6.134	1.00	0.54	SEG1
ATOM	1869	CA	ALA	122	-14.962	-7.317	7.252	1.00	0.58	SEG1
ATOM	1870	HA	ALA	122	-14.535	-7.376	8.241	1.00	0.60	SEG1
ATOM	1871	CB	ALA	122	-16.487	-7.382	7.341	1.00	0.64	SEG1
ATOM	1872	HB1	ALA	122	-16.917	-7.030	6.416	1.00	1.23	SEG1
ATOM	1873	HB2	ALA	122	-16.826	-6.759	8.156	1.00	1.17	SEG1
ATOM	1874	HB3	ALA	122	-16.794	-8.402	7.516	1.00	1.23	SEG1
ATOM	1875	C	ALA	122	-14.425	-8.458	6.372	1.00	0.56	SEG1
ATOM	1876	O	ALA	122	-14.455	-9.610	6.763	1.00	0.60	SEG1
ATOM	1877	N	GLU	123	-13.932	-8.151	5.193	1.00	0.52	SEG1
ATOM	1878	HN	GLU	123	-13.912	-7.220	4.894	1.00	0.51	SEG1
ATOM	1879	CA	GLU	123	-13.392	-9.220	4.301	1.00	0.51	SEG1
ATOM	1880	HA	GLU	123	-13.761	-10.187	4.606	1.00	0.56	SEG1
ATOM	1881	CB	GLU	123	-13.919	-8.875	2.908	1.00	0.52	SEG1
ATOM	1882	HB1	GLU	123	-13.430	-9.494	2.173	1.00	0.60	SEG1
ATOM	1883	HB2	GLU	123	-13.716	-7.835	2.696	1.00	0.62	SEG1
ATOM	1884	CG	GLU	123	-15.432	-9.122	2.860	1.00	0.81	SEG1
ATOM	1885	HG1	GLU	123	-15.919	-8.503	3.598	1.00	1.14	SEG1
ATOM	1886	HG2	GLU	123	-15.630	-10.161	3.078	1.00	1.08	SEG1
ATOM	1887	CD	GLU	123	-15.985	-8.781	1.468	1.00	1.04	SEG1
ATOM	1888	OE1	GLU	123	-15.256	-8.207	0.673	1.00	1.61	SEG1
ATOM	1889	OE2	GLU	123	-17.134	-9.109	1.219	1.00	1.62	SEG1
ATOM	1890	C	GLU	123	-11.861	-9.201	4.324	1.00	0.46	SEG1
ATOM	1891	O	GLU	123	-11.242	-8.169	4.146	1.00	0.45	SEG1
ATOM	1892	N	ARG	124	-11.251	-10.338	4.545	1.00	0.49	SEG1
ATOM	1893	HN	ARG	124	-11.777	-11.152	4.688	1.00	0.54	SEG1
ATOM	1894	CA	ARG	124	-9.759	-10.401	4.587	1.00	0.49	SEG1
ATOM	1895	HA	ARG	124	-9.364	-9.483	4.993	1.00	0.48	SEG1
ATOM	1896	CB	ARG	124	-9.435	-11.562	5.529	1.00	0.56	SEG1
ATOM	1897	HB1	ARG	124	-8.385	-11.798	5.467	1.00	0.58	SEG1
ATOM	1898	HB2	ARG	124	-10.018	-12.427	5.248	1.00	0.57	SEG1
ATOM	1899	CG	ARG	124	-9.781	-11.156	6.964	1.00	0.61	SEG1
ATOM	1900	HG1	ARG	124	-10.832	-10.919	7.028	1.00	0.61	SEG1
ATOM	1901	HG2	ARG	124	-9.199	-10.288	7.240	1.00	0.60	SEG1
ATOM	1902	CD	ARG	124	-9.461	-12.312	7.918	1.00	0.70	SEG1
ATOM	1903	HD1	ARG	124	-8.407	-12.546	7.886	1.00	1.17	SEG1
ATOM	1904	HD2	ARG	124	-10.048	-13.182	7.661	1.00	1.17	SEG1
ATOM	1905	NE	ARG	124	-9.832	-11.814	9.281	1.00	1.59	SEG1
ATOM	1906	HE	ARG	124	-10.282	-10.947	9.372	1.00	2.17	SEG1
ATOM	1907	CZ	ARG	124	-9.567	-12.517	10.365	1.00	2.20	SEG1
ATOM	1908	NH1	ARG	124	-9.908	-12.042	11.532	1.00	3.24	SEG1
ATOM	1909	HH11	ARG	124	-10.364	-11.155	11.596	1.00	3.68	SEG1
ATOM	1910	HH12	ARG	124	-9.713	-12.565	12.361	1.00	3.76	SEG1
ATOM	1911	NH2	ARG	124	-8.967	-13.683	10.300	1.00	2.24	SEG1
ATOM	1912	HH21	ARG	124	-8.696	-14.065	9.418	1.00	2.00	SEG1

FIG. 2 (25 of 35)

ATOM	1913	HH22	ARG	124	-8.780	-14.194	1.139	1.00	2.90	SEG1	FIG. 2 (26 of 35)
ATOM	1914	C	ARG	124	-9.185	-10.648	3.188	1.00	0.46	SEG1	
ATOM	1915	O	ARG	124	-9.872	-10.511	2.193	1.00	0.44	SEG1	
ATOM	1916	N	LEU	125	-7.923	-10.993	3.109	1.00	0.49	SEG1	
ATOM	1917	HN	LEU	125	-7.393	-11.079	3.928	1.00	0.53	SEG1	
ATOM	1918	CA	LEU	125	-7.283	-11.230	1.777	1.00	0.49	SEG1	
ATOM	1919	HA	LEU	125	-7.297	-10.326	1.191	1.00	0.50	SEG1	
ATOM	1920	CB	LEU	125	-5.835	-11.627	2.096	1.00	0.58	SEG1	
ATOM	1921	HB1	LEU	125	-5.834	-12.518	2.704	1.00	0.60	SEG1	
ATOM	1922	HB2	LEU	125	-5.353	-10.823	2.635	1.00	0.62	SEG1	
ATOM	1923	CG	LEU	125	-5.069	-11.899	0.798	1.00	0.62	SEG1	
ATOM	1924	HG	LEU	125	-5.615	-12.621	0.206	1.00	0.79	SEG1	
ATOM	1925	CD1	LEU	125	-4.915	-10.600	-0.003	1.00	1.11	SEG1	
ATOM	1926	HD11	LEU	125	-3.896	-10.254	0.061	1.00	1.61	SEG1	
ATOM	1927	HD12	LEU	125	-5.573	-9.844	0.397	1.00	1.75	SEG1	
ATOM	1928	HD13	LEU	125	-5.167	-10.784	-1.037	1.00	1.55	SEG1	
ATOM	1929	CD2	LEU	125	-3.686	-12.463	1.139	1.00	1.28	SEG1	
ATOM	1930	HD21	LEU	125	-3.790	-13.260	1.859	1.00	1.80	SEG1	
ATOM	1931	HD22	LEU	125	-3.071	-11.679	1.556	1.00	1.84	SEG1	
ATOM	1932	HD23	LEU	125	-3.222	-12.847	0.242	1.00	1.73	SEG1	
ATOM	1933	C	LEU	125	-7.994	-12.362	1.028	1.00	0.46	SEG1	
ATOM	1934	O	LEU	125	-8.299	-12.236	-0.144	1.00	0.45	SEG1	
ATOM	1935	N	ASP	126	-8.261	-13.458	1.688	1.00	0.49	SEG1	
ATOM	1936	HN	ASP	126	-8.007	-13.537	2.632	1.00	0.53	SEG1	
ATOM	1937	CA	ASP	126	-8.956	-14.590	1.001	1.00	0.50	SEG1	
ATOM	1938	HA	ASP	126	-8.381	-14.913	0.145	1.00	0.49	SEG1	
ATOM	1939	CB	ASP	126	-9.025	-15.723	2.038	1.00	0.57	SEG1	
ATOM	1940	HB1	ASP	126	-8.025	-15.964	2.369	1.00	0.58	SEG1	
ATOM	1941	HB2	ASP	126	-9.469	-16.596	1.583	1.00	0.59	SEG1	
ATOM	1942	CG	ASP	126	-9.868	-15.299	3.251	1.00	0.62	SEG1	
ATOM	1943	OD1	ASP	126	-10.047	-14.108	3.446	1.00	1.28	SEG1	
ATOM	1944	OD2	ASP	126	-10.322	-16.179	3.964	1.00	1.21	SEG1	
ATOM	1945	C	ASP	126	-10.360	-14.158	0.559	1.00	0.51	SEG1	
ATOM	1946	O	ASP	126	-10.948	-14.746	-0.329	1.00	0.53	SEG1	
ATOM	1947	N	ALA	127	-10.899	-13.135	1.177	1.00	0.52	SEG1	
ATOM	1948	HN	ALA	127	-10.406	-12.680	1.890	1.00	0.52	SEG1	
ATOM	1949	CA	ALA	127	-12.263	-12.658	0.803	1.00	0.57	SEG1	
ATOM	1950	HA	ALA	127	-12.905	-13.496	0.584	1.00	0.60	SEG1	
ATOM	1951	CB	ALA	127	-12.773	-11.927	2.046	1.00	0.64	SEG1	
ATOM	1952	HB1	ALA	127	-12.036	-11.203	2.368	1.00	1.19	SEG1	
ATOM	19										

ATOM	1990	HD21	LEU	129	-6.980	-11.598	-4.296	1.00	1.13	SEG1
ATOM	1991	HD22	LEU	129	-6.253	-13.036	-5.013	1.00	1.11	SEG1
ATOM	1992	HD23	LEU	129	-5.450	-12.215	-3.675	1.00	1.28	SEG1
ATOM	1993	C	LEU	129	-10.501	-13.585	-5.061	1.00	0.54	SEG1
ATOM	1994	O	LEU	129	-10.542	-13.597	-6.278	1.00	0.60	SEG1
ATOM	1995	N	ALA	130	-11.454	-14.118	-4.340	1.00	0.56	SEG1
ATOM	1996	HN	ALA	130	-11.393	-14.098	-3.361	1.00	0.54	SEG1
ATOM	1997	CA	ALA	130	-12.631	-14.765	-5.003	1.00	0.64	SEG1
ATOM	1998	HA	ALA	130	-12.299	-15.512	-5.706	1.00	0.73	SEG1
ATOM	1999	CB	ALA	130	-13.418	-15.429	-3.871	1.00	0.72	SEG1
ATOM	2000	HB1	ALA	130	-14.057	-16.197	-4.281	1.00	1.23	SEG1
ATOM	2001	HB2	ALA	130	-14.022	-14.688	-3.369	1.00	1.22	SEG1
ATOM	2002	HB3	ALA	130	-12.730	-15.871	-3.166	1.00	1.30	SEG1
ATOM	2003	C	ALA	130	-13.497	-13.718	-5.711	1.00	0.59	SEG1
ATOM	2004	O	ALA	130	-13.759	-13.818	-6.895	1.00	0.64	SEG1
ATOM	2005	N	ASP	131	-13.948	-12.720	-4.992	1.00	0.55	SEG1
ATOM	2006	HN	ASP	131	-13.727	-12.667	-4.039	1.00	0.57	SEG1
ATOM	2007	CA	ASP	131	-14.807	-11.669	-5.616	1.00	0.53	SEG1
ATOM	2008	HA	ASP	131	-15.173	-12.001	-6.574	1.00	0.58	SEG1
ATOM	2009	CB	ASP	131	-15.975	-11.489	-4.646	1.00	0.61	SEG1
ATOM	2010	HB1	ASP	131	-16.552	-10.623	-4.934	1.00	0.74	SEG1
ATOM	2011	HB2	ASP	131	-15.592	-11.350	-3.645	1.00	0.91	SEG1
ATOM	2012	CG	ASP	131	-16.867	-12.730	-4.685	1.00	0.99	SEG1
ATOM	2013	OD1	ASP	131	-17.317	-13.145	-3.630	1.00	1.79	SEG1
ATOM	2014	OD2	ASP	131	-17.089	-13.242	-5.770	1.00	1.43	SEG1
ATOM	2015	C	ASP	131	-14.029	-10.359	-5.764	1.00	0.45	SEG1
ATOM	2016	O	ASP	131	-13.505	-9.828	-4.803	1.00	0.42	SEG1
ATOM	2017	N	GLU	132	-13.956	-9.838	-6.962	1.00	0.46	SEG1
ATOM	2018	HN	GLU	132	-14.390	-10.287	-7.717	1.00	0.51	SEG1
ATOM	2019	CA	GLU	132	-13.217	-8.561	-7.183	1.00	0.45	SEG1
ATOM	2020	HA	GLU	132	-12.367	-8.499	-6.522	1.00	0.44	SEG1
ATOM	2021	CB	GLU	132	-12.744	-8.621	-8.637	1.00	0.54	SEG1
ATOM	2022	HB1	GLU	132	-12.350	-7.659	-8.928	1.00	1.06	SEG1
ATOM	2023	HB2	GLU	132	-13.576	-8.878	-9.276	1.00	0.88	SEG1
ATOM	2024	CG	GLU	132	-11.645	-9.683	-8.771	1.00	1.23	SEG1
ATOM	2025	HG1	GLU	132	-12.041	-10.644	-8.476	1.00	1.67	SEG1
ATOM	2026	HG2	GLU	132	-10.818	-9.425	-8.126	1.00	1.77	SEG1
ATOM	2027	CD	GLU	132	-11.152	-9.764	-10.224	1.00	1.29	SEG1
ATOM	2028	OE1	GLU	132	-10.154	-10.430	-10.447	1.00	1.79	SEG1
ATOM	2029	OE2	GLU	132	-11.777	-9.167	-11.088	1.00	1.59	SEG1
ATOM	2030	C	GLU	132	-14.150	-7.366	-6.964	1.00	0.43	SEG1
ATOM	2031	O	GLU	132	-13.732	-6.321	-6.510	1.00	0.42	SEG1
ATOM	2032	N	GLU	133	-15.410	-7.511	-7.280	1.00	0.46	SEG1
ATOM	2033	HN	GLU	133	-15.727	-8.365	-7.645	1.00	0.49	SEG1
ATOM	2034	CA	GLU	133	-16.367	-6.377	-7.082	1.00	0.47	SEG1
ATOM	2035	HA	GLU	133	-16.061	-5.520	-7.660	1.00	0.50	SEG1
ATOM	2036	CB	GLU	133	-17.717	-6.894	-7.586	1.00	0.53	SEG1
ATOM	2037	HB1	GLU	133	-18.493	-6.195	-7.315	1.00	0.71	SEG1
ATOM	2038	HB2	GLU	133	-17.924	-7.855	-7.136	1.00	0.75	SEG1
ATOM	2039	CG	GLU	133	-17.676	-7.041	-9.111	1.00	0.96	SEG1
ATOM	2040	HG1	GLU	133	-16.898	-7.739	-9.381	1.00	1.39	SEG1
ATOM	2041	HG2	GLU	133	-17.465	-6.081	-9.558	1.00	1.25	SEG1
ATOM	2042	CD	GLU	133	-19.025	-7.560	-9.633	1.00	1.18	SEG1
ATOM	2043	OE1	GLU	133	-19.853	-7.956	-8.824	1.00	1.50	SEG1
ATOM	2044	OE2	GLU	133	-19.207	-7.554	-10.840	1.00	1.83	SEG1
ATOM	2045	C	GLU	133	-16.460	-6.017	-5.594	1.00	0.41	SEG1
ATOM	2046	O	GLU	133	-16.538	-4.858	-5.228	1.00	0.41	SEG1
ATOM	2047	N	ARG	134	-16.469	-7.008	-4.738	1.00	0.40	SEG1
ATOM	2048	HN	ARG	134	-16.419	-7.931	-5.065	1.00	0.42	SEG1
ATOM	2049	CA	ARG	134	-16.581	-6.744	-3.268	1.00	0.39	SEG1
ATOM	2050	HA	ARG	134	-17.502	-6.226	-3.058	1.00	0.42	SEG1
ATOM	2051	CB	ARG	134	-16.619	-8.118	-2.603	1.00	0.44	SEG1
ATOM	2052	HB1	ARG	134	-16.526	-8.002	-1.534	1.00	0.68	SEG1
ATOM	2053	HB2	ARG	134	-15.802	-8.720	-2.974	1.00	0.63	SEG1
ATOM	2054	CG	ARG	134	-17.947	-8.802	-2.925	1.00	0.71	SEG1
ATOM	2055	HG1	ARG	134	-18.030	-8.947	-3.991	1.00	1.28	SEG1
ATOM	2056	HG2	ARG	134	-18.764	-8.186	-2.578	1.00	1.12	SEG1
ATOM	2057	CD	ARG	134	-17.992	-10.158	-2.222	1.00	1.16	SEG1
ATOM	2058	HD1	ARG	134	-17.945	-10.023	-1.153	1.00	1.47	SEG1
ATOM	2059	HD2	ARG	134	-17.175	-10.779	-2.559	1.00	1.71	SEG1
ATOM	2060	NE	ARG	134	-19.306	-10.767	-2.603	1.00	1.51	SEG1
ATOM	2061	HE	ARG	134	-19.918	-10.269	-3.186	1.00	1.74	SEG1
ATOM	2062	CZ	ARG	134	-19.655	-11.965	-2.177	1.00	2.12	SEG1
ATOM	2063	NH1	ARG	134	-20.802	-12.464	-2.549	1.00	2.52	SEG1
ATOM	2064	HH11	ARG	134	-21.405	-11.938	-3.149	1.00	2.52	SEG1
ATOM	2065	HH12	ARG	134	-21.078	-13.372	-2.234	1.00	3.06	SEG1
ATOM	2066	NH2	ARG	134	-18.878	-12.667	-1.383	1.00	2.76	SEG1

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ATOM	2067	HH21	ARG	134	-17.998	-12.302	-1.083	1.00	2.75	SEG1
ATOM	2068	HH22	ARG	134	-19.169	-13.573	-1.077	1.00	3.44	SEG1
ATOM	2069	C	ARG	134	-15.395	-5.931	-2.734	1.00	0.34	SEG1
ATOM	2070	O	ARG	134	-15.571	-5.067	-1.895	1.00	0.36	SEG1
ATOM	2071	N	CYS	135	-14.188	-6.202	-3.184	1.00	0.33	SEG1
ATOM	2072	HN	CYS	135	-14.056	-6.911	-3.848	1.00	0.34	SEG1
ATOM	2073	CA	CYS	135	-13.012	-5.435	-2.655	1.00	0.31	SEG1
ATOM	2074	HA	CYS	135	-12.925	-5.615	-1.594	1.00	0.32	SEG1
ATOM	2075	CB	CYS	135	-11.763	-6.017	-3.370	1.00	0.35	SEG1
ATOM	2076	HB1	CYS	135	-11.888	-7.086	-3.473	1.00	0.38	SEG1
ATOM	2077	HB2	CYS	135	-10.893	-5.826	-2.763	1.00	0.37	SEG1
ATOM	2078	SG	CYS	135	-11.491	-5.291	-5.018	1.00	0.41	SEG1
ATOM	2079	HG	CYS	135	-10.551	-5.117	-5.113	1.00	0.98	SEG1
ATOM	2080	C	CYS	135	-13.203	-3.927	-2.892	1.00	0.31	SEG1
ATOM	2081	O	CYS	135	-12.861	-3.112	-2.056	1.00	0.32	SEG1
ATOM	2082	N	LEU	136	-13.754	-3.560	-4.022	1.00	0.34	SEG1
ATOM	2083	HN	LEU	136	-14.026	-4.240	-4.675	1.00	0.36	SEG1
ATOM	2084	CA	LEU	136	-13.977	-2.111	-4.312	1.00	0.39	SEG1
ATOM	2085	HA	LEU	136	-13.043	-1.573	-4.293	1.00	0.41	SEG1
ATOM	2086	CB	LEU	136	-14.578	-2.074	-5.720	1.00	0.44	SEG1
ATOM	2087	HB1	LEU	136	-14.869	-1.063	-5.962	1.00	0.48	SEG1
ATOM	2088	HB2	LEU	136	-15.445	-2.718	-5.757	1.00	0.44	SEG1
ATOM	2089	CG	LEU	136	-13.538	-2.559	-6.730	1.00	0.46	SEG1
ATOM	2090	HG	LEU	136	-13.158	-3.522	-6.420	1.00	0.44	SEG1
ATOM	2091	CD1	LEU	136	-14.188	-2.690	-8.109	1.00	0.54	SEG1
ATOM	2092	HD11	LEU	136	-14.407	-1.707	-8.498	1.00	1.21	SEG1
ATOM	2093	HD12	LEU	136	-15.104	-3.256	-8.022	1.00	1.19	SEG1
ATOM	2094	HD13	LEU	136	-13.511	-3.201	-8.778	1.00	1.03	SEG1
ATOM	2095	CD2	LEU	136	-12.388	-1.553	-6.802	1.00	0.49	SEG1
ATOM	2096	HD21	LEU	136	-11.833	-1.575	-5.875	1.00	1.08	SEG1
ATOM	2097	HD22	LEU	136	-12.785	-0.562	-6.960	1.00	1.12	SEG1
ATOM	2098	HD23	LEU	136	-11.732	-1.813	-7.620	1.00	1.19	SEG1
ATOM	2099	C	LEU	136	-14.959	-1.519	-3.296	1.00	0.39	SEG1
ATOM	2100	O	LEU	136	-14.768	-0.426	-2.797	1.00	0.43	SEG1
ATOM	2101	N	SER	137	-16.009	-2.240	-2.989	1.00	0.38	SEG1
ATOM	2102	HN	SER	137	-16.134	-3.118	-3.410	1.00	0.37	SEG1
ATOM	2103	CA	SER	137	-17.017	-1.733	-2.003	1.00	0.43	SEG1
ATOM	2104	HA	SER	137	-17.464	-0.822	-2.363	1.00	0.48	SEG1
ATOM	2105	CB	SER	137	-18.078	-2.830	-1.911	1.00	0.48	SEG1
ATOM	2106	HB1	SER	137	-18.773	-2.591	-1.117	1.00	1.02	SEG1
ATOM	2107	HB2	SER	137	-17.605	-3.775	-1.698	1.00	1.21	SEG1
ATOM	2108	OG	SER	137	-18.768	-2.922	-3.150	1.00	1.35	SEG1
ATOM	2109	HG	SER	137	-18.239	-3.459	-3.745			

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ATOM	2144	CA	LEU	140	-14.306	2.745	-1.114	1.00	0.55	SEG1
ATOM	2145	HA	LEU	140	-13.576	3.535	-1.113	1.00	0.57	SEG1
ATOM	2146	CB	LEU	140	-14.942	2.645	-2.525	1.00	0.64	SEG1
ATOM	2147	HB1	LEU	140	-14.431	1.871	-3.076	1.00	0.65	SEG1
ATOM	2148	HB2	LEU	140	-14.805	3.585	-3.041	1.00	0.87	SEG1
ATOM	2149	CG	LEU	140	-16.445	2.313	-2.473	1.00	0.63	SEG1
ATOM	2150	HG	LEU	140	-16.635	1.638	-1.651	1.00	0.60	SEG1
ATOM	2151	CD1	LEU	140	-17.251	3.602	-2.271	1.00	0.95	SEG1
ATOM	2152	HD11	LEU	140	-16.602	4.380	-1.896	1.00	1.34	SEG1
ATOM	2153	HD12	LEU	140	-18.043	3.422	-1.558	1.00	1.62	SEG1
ATOM	2154	HD13	LEU	140	-17.679	3.915	-3.212	1.00	1.37	SEG1
ATOM	2155	CD2	LEU	140	-16.862	1.649	-3.788	1.00	0.62	SEG1
ATOM	2156	HD21	LEU	140	-17.839	1.204	-3.673	1.00	1.13	SEG1
ATOM	2157	HD22	LEU	140	-16.146	0.884	-4.048	1.00	1.26	SEG1
ATOM	2158	HD23	LEU	140	-16.895	2.391	-4.572	1.00	1.20	SEG1
ATOM	2159	C	LEU	140	-15.323	3.001	0.020	1.00	0.59	SEG1
ATOM	2160	O	LEU	140	-15.806	4.106	0.184	1.00	0.71	SEG1
ATOM	2161	N	ALA	141	-15.638	1.997	0.805	1.00	0.54	SEG1
ATOM	2162	HN	ALA	141	-15.231	1.117	0.664	1.00	0.47	SEG1
ATOM	2163	CA	ALA	141	-16.605	2.196	1.928	1.00	0.63	SEG1
ATOM	2164	HA	ALA	141	-17.502	2.676	1.571	1.00	0.73	SEG1
ATOM	2165	CB	ALA	141	-16.931	0.790	2.436	1.00	0.67	SEG1
ATOM	2166	HB1	ALA	141	-16.138	0.112	2.153	1.00	1.22	SEG1
ATOM	2167	HB2	ALA	141	-17.862	0.457	2.001	1.00	1.22	SEG1
ATOM	2168	HB3	ALA	141	-17.022	0.807	3.511	1.00	1.18	SEG1
ATOM	2169	C	ALA	141	-15.958	3.032	3.040	1.00	0.61	SEG1
ATOM	2170	O	ALA	141	-16.639	3.641	3.844	1.00	0.65	SEG1
ATOM	2171	N	GLN	142	-14.646	3.066	3.090	1.00	0.61	SEG1
ATOM	2172	HN	GLN	142	-14.118	2.569	2.433	1.00	0.64	SEG1
ATOM	2173	CA	GLN	142	-13.951	3.862	4.144	1.00	0.64	SEG1
ATOM	2174	HA	GLN	142	-14.603	4.024	4.987	1.00	0.70	SEG1
ATOM	2175	CB	GLN	142	-12.756	3.000	4.564	1.00	0.65	SEG1
ATOM	2176	HB1	GLN	142	-12.100	3.577	5.197	1.00	1.05	SEG1
ATOM	2177	HB2	GLN	142	-12.217	2.678	3.682	1.00	1.01	SEG1
ATOM	2178	CG	GLN	142	-13.256	1.772	5.332	1.00	1.11	SEG1
ATOM	2179	HG1	GLN	142	-14.028	1.279	4.761	1.00	1.54	SEG1
ATOM	2180	HG2	GLN	142	-13.658	2.085	6.285	1.00	1.56	SEG1
ATOM	2181	CD	GLN	142	-12.096	0.798	5.563	1.00	1.13	SEG1
ATOM	2182	OE1	GLN	142	-11.089	0.860	4.887	1.00	0.88	SEG1
ATOM	2183	NE2	GLN	142	-12.200	-0.110	6.496	1.00	1.49	SEG1
ATOM	2184	HE21	GLN	142	-13.014	-0.163	7.039	1.00	1.77	SEG1
ATOM	2185	HE22	GLN	142	-11.464	-0.737	6.653	1.00	1.52	SEG1

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ATOM	2221	CA	ASP	145	-8.471	11.168	6.448	1.00	1.02	SEG1
ATOM	2222	HA	ASP	145	-9.243	11.921	6.450	1.00	1.13	SEG1
ATOM	2223	CB	ASP	145	-8.605	10.277	7.683	1.00	1.23	SEG1
ATOM	2224	HB1	ASP	145	-7.754	9.617	7.744	1.00	1.40	SEG1
ATOM	2225	HB2	ASP	145	-9.511	9.693	7.607	1.00	1.68	SEG1
ATOM	2226	CG	ASP	145	-8.663	11.150	8.938	1.00	1.86	SEG1
ATOM	2227	OD1	ASP	145	-9.712	11.193	9.559	1.00	2.54	SEG1
ATOM	2228	OD2	ASP	145	-7.656	11.761	9.257	1.00	2.40	SEG1
ATOM	2229	C	ASP	145	-7.086	11.818	6.405	1.00	0.94	SEG1
ATOM	2230	O	ASP	145	-6.127	11.296	6.943	1.00	0.94	SEG1
ATOM	2231	N	ARG	146	-6.980	12.951	5.763	1.00	1.05	SEG1
ATOM	2232	HN	ARG	146	-7.770	13.341	5.337	1.00	1.19	SEG1
ATOM	2233	CA	ARG	146	-5.662	13.650	5.669	1.00	1.10	SEG1
ATOM	2234	HA	ARG	146	-4.856	12.934	5.648	1.00	1.16	SEG1
ATOM	2235	CB	ARG	146	-5.720	14.400	4.339	1.00	1.42	SEG1
ATOM	2236	HB1	ARG	146	-4.879	15.074	4.269	1.00	1.92	SEG1
ATOM	2237	HB2	ARG	146	-6.639	14.965	4.287	1.00	1.98	SEG1
ATOM	2238	CG	ARG	146	-5.668	13.403	3.181	1.00	1.52	SEG1
ATOM	2239	HG1	ARG	146	-6.469	12.687	3.283	1.00	1.96	SEG1
ATOM	2240	HG2	ARG	146	-4.719	12.886	3.193	1.00	1.91	SEG1
ATOM	2241	CD	ARG	146	-5.826	14.157	1.858	1.00	1.77	SEG1
ATOM	2242	HD1	ARG	146	-6.739	14.730	1.864	1.00	2.23	SEG1
ATOM	2243	HD2	ARG	146	-5.818	13.463	1.028	1.00	1.99	SEG1
ATOM	2244	NE	ARG	146	-4.645	15.074	1.789	1.00	2.23	SEG1
ATOM	2245	HE	ARG	146	-3.845	14.864	2.315	1.00	2.67	SEG1
ATOM	2246	CZ	ARG	146	-4.656	16.158	1.037	1.00	2.70	SEG1
ATOM	2247	NH1	ARG	146	-3.598	16.921	1.010	1.00	3.55	SEG1
ATOM	2248	HH11	ARG	146	-2.794	16.682	1.556	1.00	3.97	SEG1
ATOM	2249	HH12	ARG	146	-3.590	17.746	0.443	1.00	3.99	SEG1
ATOM	2250	NH2	ARG	146	-5.703	16.487	0.313	1.00	2.82	SEG1
ATOM	2251	HH21	ARG	146	-6.522	15.917	0.317	1.00	2.74	SEG1
ATOM	2252	HH22	ARG	146	-5.679	17.317	-0.245	1.00	3.37	SEG1
ATOM	2253	C	ARG	146	-5.469	14.641	6.829	1.00	0.99	SEG1
ATOM	2254	O	ARG	146	-4.407	15.215	6.981	1.00	0.96	SEG1
ATOM	2255	N	LEU	147	-6.480	14.856	7.640	1.00	1.03	SEG1
ATOM	2256	HN	LEU	147	-7.330	14.391	7.500	1.00	1.10	SEG1
ATOM	2257	CA	LEU	147	-6.336	15.821	8.777	1.00	1.07	SEG1
ATOM	2258	HA	LEU	147	-6.140	16.813	8.406	1.00	1.17	SEG1
ATOM	2259	CB	LEU	147	-7.683	15.794	9.504	1.00	1.28	SEG1
ATOM	2260	HB1	LEU	147	-7.603	16.343	10.431	1.00	1.65	SEG1
ATOM	2261	HB2	LEU	147	-7.958	14.770	9.716	1.00	1.48	SEG1
ATOM	2262	CG	LEU	147	-8.755	16.439	8.625	1.00	1.81	SEG1
ATOM	2263	HG	LEU	147	-8.746	15.975	7.649	1.00	2.37	SEG1
ATOM	2264	CD1	LEU	147	-10.128	16.239	9.268	1.00	2.27	SEG1
ATOM	2265	HD11	LEU	147	-10.862	16.833	8.743	1.00	2.67	SEG1
ATOM	2266	HD12	LEU	147	-10.089	16.548	10.302	1.00	2.60	SEG1
ATOM	2267	HD13	LEU	147	-10.403	15.197	9.214	1.00	2.67	SEG1
ATOM	2268	CD2	LEU	147	-8.471	17.936	8.485	1.00	2.31	SEG1
ATOM	2269	HD21	LEU	147	-9.400	18.467	8.341	1.00	2.50	SEG1
ATOM	2270	HD22	LEU	147	-7.827	18.103	7.634	1.00	2.84	SEG1
ATOM	2271	HD23	LEU	147	-7.985	18.296	9.380	1.00	2.68	SEG1
ATOM	2272	C	LEU	147	-5.217	15.372	9.720	1.00	0.95	SEG1
ATOM	2273	O	LEU	147	-4.415	16.168	10.171	1.00	1.02	SEG1
ATOM	2274	N	ARG	148	-5.166	14.103	10.020	1.00	0.90	SEG1
ATOM	2275	HN	ARG	148	-5.829	13.489	9.643	1.00	0.90	SEG1
ATOM	2276	CA	ARG	148	-4.108	13.582	10.939	1.00	1.02	SEG1
ATOM	2277	HA	ARG	148	-3.994	14.241	11.785	1.00	1.19	SEG1
ATOM	2278	CB	ARG	148	-4.616	12.221	11.414	1.00	1.08	SEG1
ATOM	2279	HB1	ARG	148	-3.828	11.707	11.943	1.00	1.58	SEG1
ATOM	2280	HB2	ARG	148	-4.920	11.632	10.560	1.00	1.16	SEG1
ATOM	2281	CG	ARG	148	-5.809	12.416	12.349	1.00	1.69	SEG1
ATOM	2282	HG1	ARG	148	-6.602	12.921	11.818	1.00	2.05	SEG1
ATOM	2283	HG2	ARG	148	-5.507	13.011	13.198	1.00	2.34	SEG1
ATOM	2284	CD	ARG	148	-6.309	11.052	12.827	1.00	1.94	SEG1
ATOM	2285	HD1	ARG	148	-5.530	10.532	13.364	1.00	2.37	SEG1
ATOM	2286	HD2	ARG	148	-6.650	10.461	11.987	1.00	2.25	SEG1
ATOM	2287	NE	ARG	148	-7.443	11.363	13.746	1.00	2.31	SEG1
ATOM	2288	HE	ARG	148	-8.363	11.204	13.446	1.00	2.69	SEG1
ATOM	2289	CZ	ARG	148	-7.232	11.843	14.957	1.00	2.75	SEG1
ATOM	2290	NH1	ARG	148	-8.253	12.092	15.731	1.00	3.51	SEG1
ATOM	2291	HH11	ARG	148	-9.181	11.918	15.404	1.00	3.86	SEG1
ATOM	2292	HH12	ARG	148	-8.106	12.458	16.650	1.00	3.96	SEG1
ATOM	2293	NH2	ARG	148	-6.018	12.081	15.402	1.00	2.95	SEG1
ATOM	2294	HH21	ARG	148	-5.222	11.899	14.825	1.00	2.88	SEG1
ATOM	2295	HH22	ARG	148	-5.890	12.446	16.324	1.00	3.50	SEG1
ATOM	2296	C	ARG	148	-2.769	13.418	10.215	1.00	1.06	SEG1
ATOM	2297	O	ARG	148	-1.730	13.342	10.844	1.00	1.28	SEG1

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ATOM	2298	N	ASP	149	-2.782	13.330	8.903	1.00	1.01	SEG1
ATOM	2299	HN	ASP	149	-3.631	13.370	8.423	1.00	0.94	SEG1
ATOM	2300	CA	ASP	149	-1.501	13.135	8.164	1.00	1.21	SEG1
ATOM	2301	HA	ASP	149	-0.688	12.999	8.859	1.00	1.42	SEG1
ATOM	2302	CB	ASP	149	-1.708	11.849	7.361	1.00	1.48	SEG1
ATOM	2303	HB1	ASP	149	-0.862	11.692	6.711	1.00	1.86	SEG1
ATOM	2304	HB2	ASP	149	-2.606	11.938	6.767	1.00	1.80	SEG1
ATOM	2305	CG	ASP	149	-1.843	10.655	8.316	1.00	1.62	SEG1
ATOM	2306	OD1	ASP	149	-2.324	9.624	7.874	1.00	2.12	SEG1
ATOM	2307	OD2	ASP	149	-1.471	10.790	9.473	1.00	2.10	SEG1
ATOM	2308	C	ASP	149	-1.205	14.314	7.233	1.00	1.03	SEG1
ATOM	2309	O	ASP	149	-0.684	14.133	6.147	1.00	0.90	SEG1
ATOM	2310	N	GLU	150	-1.521	15.516	7.646	1.00	1.07	SEG1
ATOM	2311	HN	GLU	150	-1.934	15.638	8.527	1.00	1.23	SEG1
ATOM	2312	CA	GLU	150	-1.242	16.703	6.776	1.00	0.95	SEG1
ATOM	2313	HA	GLU	150	-1.797	16.629	5.855	1.00	0.95	SEG1
ATOM	2314	CB	GLU	150	-1.718	17.917	7.574	1.00	1.11	SEG1
ATOM	2315	HB1	GLU	150	-1.378	18.821	7.092	1.00	1.44	SEG1
ATOM	2316	HB2	GLU	150	-1.315	17.869	8.576	1.00	1.75	SEG1
ATOM	2317	CG	GLU	150	-3.246	17.919	7.638	1.00	1.35	SEG1
ATOM	2318	HG1	GLU	150	-3.589	17.017	8.120	1.00	1.98	SEG1
ATOM	2319	HG2	GLU	150	-3.646	17.968	6.635	1.00	1.71	SEG1
ATOM	2320	CD	GLU	150	-3.720	19.135	8.436	1.00	1.41	SEG1
ATOM	2321	OE1	GLU	150	-3.787	19.033	9.650	1.00	1.66	SEG1
ATOM	2322	OE2	GLU	150	-4.008	20.148	7.819	1.00	1.91	SEG1
ATOM	2323	C	GLU	150	0.260	16.808	6.485	1.00	0.77	SEG1
ATOM	2324	O	GLU	150	0.661	17.120	5.380	1.00	0.66	SEG1
ATOM	2325	N	GLU	151	1.092	16.546	7.466	1.00	0.79	SEG1
ATOM	2326	HN	GLU	151	0.744	16.293	8.347	1.00	0.90	SEG1
ATOM	2327	CA	GLU	151	2.571	16.627	7.239	1.00	0.70	SEG1
ATOM	2328	HA	GLU	151	2.853	17.630	6.967	1.00	0.73	SEG1
ATOM	2329	CB	GLU	151	3.216	16.244	8.573	1.00	0.82	SEG1
ATOM	2330	HB1	GLU	151	4.279	16.114	8.434	1.00	1.27	SEG1
ATOM	2331	HB2	GLU	151	2.783	15.321	8.931	1.00	1.15	SEG1
ATOM	2332	CG	GLU	151	2.971	17.356	9.600	1.00	1.41	SEG1
ATOM	2333	HG1	GLU	151	1.909	17.490	9.736	1.00	1.98	SEG1
ATOM	2334	HG2	GLU	151	3.404	18.277	9.239	1.00	1.90	SEG1
ATOM	2335	CD	GLU	151	3.613	16.988	10.948	1.00	1.66	SEG1
ATOM	2336	OE1	GLU	151	3.401	17.725	11.898	1.00	2.04	SEG1
ATOM	2337	OE2	GLU	151	4.305	15.982	11.012	1.00	2.22	SEG1
ATOM	2338	C	GLU	151	2.990	15.643	6.144	1.00	0.54	SEG1
ATOM	2339	O	GLU	151	3.816	15.950	5.305	1.00	0.48	SEG1
ATOM	2340	N	LEU	152	2.415	14.468	6.142			

[illegible]

ATOM	2375	HB2	GLU	154	3.748	18.294	3.945	1.00	0.99	SEG1
ATOM	2376	CG	GLU	154	2.283	19.729	3.300	1.00	1.00	SEG1
ATOM	2377	HG1	GLU	154	1.446	19.112	3.592	1.00	1.52	SEG1
ATOM	2378	HG2	GLU	154	2.034	20.265	2.396	1.00	1.58	SEG1
ATOM	2379	CD	GLU	154	2.583	20.733	4.423	1.00	1.17	SEG1
ATOM	2380	OE1	GLU	154	1.777	21.631	4.612	1.00	1.60	SEG1
ATOM	2381	OE2	GLU	154	3.606	20.591	5.677	1.00	1.77	SEG1
ATOM	2382	C	GLU	154	4.440	17.073	1.518	1.00	0.51	SEG1
ATOM	2383	O	GLU	154	5.039	17.330	0.491	1.00	0.55	SEG1
ATOM	2384	N	LEU	155	4.839	16.127	2.332	1.00	0.45	SEG1
ATOM	2385	HN	LEU	155	4.332	15.950	3.153	1.00	0.44	SEG1
ATOM	2386	CA	LEU	155	6.059	15.323	2.021	1.00	0.43	SEG1
ATOM	2387	HA	LEU	155	6.921	15.964	1.958	1.00	0.47	SEG1
ATOM	2388	CB	LEU	155	6.213	14.356	3.202	1.00	0.40	SEG1
ATOM	2389	HB1	LEU	155	5.335	13.731	3.270	1.00	0.40	SEG1
ATOM	2390	HB2	LEU	155	6.324	14.921	4.116	1.00	0.43	SEG1
ATOM	2391	CG	LEU	155	7.447	13.473	2.994	1.00	0.42	SEG1
ATOM	2392	HG	LEU	155	8.195	14.025	2.445	1.00	0.51	SEG1
ATOM	2393	CD1	LEU	155	8.016	13.060	4.353	1.00	0.42	SEG1
ATOM	2394	HD11	LEU	155	7.475	12.202	4.724	1.00	1.09	SEG1
ATOM	2395	HD12	LEU	155	7.914	13.879	5.050	1.00	1.01	SEG1
ATOM	2396	HD13	LEU	155	9.060	12.808	4.244	1.00	1.13	SEG1
ATOM	2397	CD2	LEU	155	7.054	12.221	2.208	1.00	0.51	SEG1
ATOM	2398	HD21	LEU	155	6.036	11.950	2.447	1.00	1.03	SEG1
ATOM	2399	HD22	LEU	155	7.714	11.408	2.472	1.00	1.18	SEG1
ATOM	2400	HD23	LEU	155	7.134	12.420	1.150	1.00	1.19	SEG1
ATOM	2401	C	LEU	155	5.875	14.554	0.709	1.00	0.46	SEG1
ATOM	2402	O	LEU	155	6.720	14.597	-0.165	1.00	0.51	SEG1
ATOM	2403	N	GLU	156	4.777	13.851	0.568	1.00	0.48	SEG1
ATOM	2404	HN	GLU	156	4.115	13.832	1.289	1.00	0.47	SEG1
ATOM	2405	CA	GLU	156	4.543	13.076	-0.689	1.00	0.55	SEG1
ATOM	2406	HA	GLU	156	5.339	12.362	-0.829	1.00	0.54	SEG1
ATOM	2407	CB	GLU	156	3.215	12.329	-0.491	1.00	0.60	SEG1
ATOM	2408	HB1	GLU	156	3.292	11.687	0.374	1.00	0.58	SEG1
ATOM	2409	HB2	GLU	156	3.011	11.728	-1.365	1.00	0.68	SEG1
ATOM	2410	CG	GLU	156	2.070	13.318	-0.281	1.00	0.64	SEG1
ATOM	2411	HG1	GLU	156	2.015	13.994	-1.120	1.00	0.72	SEG1
ATOM	2412	HG2	GLU	156	2.245	13.874	0.623	1.00	0.57	SEG1
ATOM	2413	CD	GLU	156	0.751	12.553	-0.159	1.00	0.74	SEG1
ATOM	2414	OE1	GLU	156	0.015	12.523	-1.132	1.00	1.30	SEG1
ATOM	2415	OE2	GLU	156	0.500	12.011	0.904	1.00	1.37	SEG1
ATOM	2416	C	GLU	156	4.478	14.025	-1.889	1.00	0.63	SEG1
ATOM	2417	O	GLU	156	4.938	13.700	-2.968	1.00	0.67	SEG1
ATOM	2418	N	ASP	157	3.922	15.199	-1.707	1.00	0.66	SEG1
ATOM	2419	HN	ASP	157	3.566	15.441	-0.826	1.00	0.63	SEG1
ATOM	2420	CA	ASP	157	3.842	16.169	-2.842	1.00	0.76	SEG1
ATOM	2421	HA	ASP	157	3.408	15.697	-3.708	1.00	0.81	SEG1
ATOM	2422	CB	ASP	157	2.940	17.304	-2.351	1.00	0.81	SEG1
ATOM	2423	HB1	ASP	157	2.980	18.123	-3.053	1.00	0.88	SEG1
ATOM	2424	HB2	ASP	157	3.283	17.644	-1.384	1.00	0.76	SEG1
ATOM	2425	CG	ASP	157	1.496	16.805	-2.235	1.00	0.84	SEG1
ATOM	2426	OD1	ASP	157	1.133	15.914	-2.985	1.00	1.26	SEG1
ATOM	2427	OD2	ASP	157	0.778	17.324	-1.397	1.00	1.49	SEG1
ATOM	2428	C	ASP	157	5.237	16.691	-3.171	1.00	0.76	SEG1
ATOM	2429	O	ASP	157	5.597	16.841	-4.323	1.00	0.82	SEG1
ATOM	2430	N	ALA	158	6.029	16.950	-2.165	1.00	0.70	SEG1
ATOM	2431	HN	ALA	158	5.714	16.806	-1.247	1.00	0.66	SEG1
ATOM	2432	CA	ALA	158	7.414	17.444	-2.412	1.00	0.74	SEG1
ATOM	2433	HA	ALA	158	7.396	18.312	-3.051	1.00	0.82	SEG1
ATOM	2434	CB	ALA	158	7.969	17.814	-1.034	1.00	0.72	SEG1
ATOM	2435	HB1	ALA	158	7.160	18.133	-0.394	1.00	1.34	SEG1
ATOM	2436	HB2	ALA	158	8.684	18.617	-1.138	1.00	1.21	SEG1
ATOM	2437	HB3	ALA	158	8.455	16.954	-0.599	1.00	1.17	SEG1
ATOM	2438	C	ALA	158	8.240	16.325	-3.050	1.00	0.70	SEG1
ATOM	2439	O	ALA	158	9.052	16.559	-3.926	1.00	0.77	SEG1
ATOM	2440	N	LEU	159	8.031	15.109	-2.612	1.00	0.62	SEG1
ATOM	2441	HN	LEU	159	7.369	14.957	-1.905	1.00	0.58	SEG1
ATOM	2442	CA	LEU	159	8.797	13.956	-3.181	1.00	0.60	SEG1
ATOM	2443	HA	LEU	159	9.850	14.072	-2.989	1.00	0.63	SEG1
ATOM	2444	CB	LEU	159	8.265	12.717	-2.448	1.00	0.53	SEG1
ATOM	2445	HB1	LEU	159	7.206	12.617	-2.633	1.00	0.53	SEG1
ATOM	2446	HB2	LEU	159	8.437	12.825	-1.388	1.00	0.51	SEG1
ATOM	2447	CG	LEU	159	8.988	11.465	-2.956	1.00	0.54	SEG1
ATOM	2448	HG	LEU	159	8.963	11.453	-4.037	1.00	0.65	SEG1
ATOM	2449	CD1	LEU	159	10.446	11.479	-2.482	1.00	0.76	SEG1
ATOM	2450	HD11	LEU	159	10.731	12.485	-2.214	1.00	1.37	SEG1
ATOM	2451	HD12	LEU	159	11.086	11.124	-3.276	1.00	1.37	SEG1

FIG. 2 (32 of 35)

ATOM	2452	HD13	LEU	159	10.552	10.835	-1.621	1.00	1.16	SEG1
ATOM	2453	CD2	LEU	159	8.283	10.221	-2.416	1.00	0.58	SEG1
ATOM	2454	HD21	LEU	159	8.485	10.124	-1.360	1.00	1.22	SEG1
ATOM	2455	HD22	LEU	159	8.647	9.347	-2.935	1.00	1.13	SEG1
ATOM	2456	HD23	LEU	159	7.218	10.315	-2.572	1.00	1.21	SEG1
ATOM	2457	C	LEU	159	8.534	13.836	-4.688	1.00	0.67	SEG1
ATOM	2458	O	LEU	159	9.438	13.579	-5.460	1.00	0.71	SEG1
ATOM	2459	N	ARG	160	7.303	14.018	-5.111	1.00	0.70	SEG1
ATOM	2460	HN	ARG	160	6.589	14.224	-4.467	1.00	0.68	SEG1
ATOM	2461	CA	ARG	160	6.988	13.912	-6.572	1.00	0.80	SEG1
ATOM	2462	HA	ARG	160	7.205	12.921	-6.932	1.00	0.80	SEG1
ATOM	2463	CB	ARG	160	5.486	14.197	-6.687	1.00	0.86	SEG1
ATOM	2464	HB1	ARG	160	5.277	15.186	-6.310	1.00	1.08	SEG1
ATOM	2465	HB2	ARG	160	4.938	13.467	-6.108	1.00	1.05	SEG1
ATOM	2466	CG	ARG	160	5.054	14.112	-8.156	1.00	1.22	SEG1
ATOM	2467	HG1	ARG	160	5.258	13.121	-8.533	1.00	1.67	SEG1
ATOM	2468	HG2	ARG	160	5.604	14.839	-8.736	1.00	1.51	SEG1
ATOM	2469	CD	ARG	160	3.552	14.396	-8.264	1.00	1.41	SEG1
ATOM	2470	HD1	ARG	160	3.334	15.392	-7.911	1.00	1.63	SEG1
ATOM	2471	HD2	ARG	160	2.992	13.665	-7.699	1.00	1.87	SEG1
ATOM	2472	NE	ARG	160	3.230	14.290	-9.723	1.00	1.88	SEG1
ATOM	2473	HE	ARG	160	3.876	13.872	-10.330	1.00	2.40	SEG1
ATOM	2474	CZ	ARG	160	2.091	14.750	-10.208	1.00	2.25	SEG1
ATOM	2475	NH1	ARG	160	1.851	14.638	-11.487	1.00	3.04	SEG1
ATOM	2476	HH11	ARG	160	2.525	14.208	-12.087	1.00	3.44	SEG1
ATOM	2477	HH12	ARG	160	0.992	14.983	-11.865	1.00	3.46	SEG1
ATOM	2478	NH2	ARG	160	1.193	15.318	-9.436	1.00	2.40	SEG1
ATOM	2479	HH21	ARG	160	1.357	15.414	-8.455	1.00	2.30	SEG1
ATOM	2480	HH22	ARG	160	0.340	15.656	-9.833	1.00	2.98	SEG1
ATOM	2481	C	ARG	160	7.800	14.953	-7.354	1.00	0.90	SEG1
ATOM	2482	O	ARG	160	8.332	14.673	-8.412	1.00	0.97	SEG1
ATOM	2483	N	ASN	161	7.904	16.145	-6.827	1.00	0.92	SEG1
ATOM	2484	HN	ASN	161	7.470	16.332	-5.969	1.00	0.87	SEG1
ATOM	2485	CA	ASN	161	8.690	17.214	-7.516	1.00	1.04	SEG1
ATOM	2486	HA	ASN	161	8.312	17.378	-8.511	1.00	1.11	SEG1
ATOM	2487	CB	ASN	161	8.495	18.472	-6.666	1.00	1.08	SEG1
ATOM	2488	HB1	ASN	161	9.172	19.244	-7.002	1.00	1.35	SEG1
ATOM	2489	HB2	ASN	161	8.697	18.241	-5.631	1.00	1.08	SEG1
ATOM	2490	CG	ASN	161	7.053	18.966	-6.806	1.00	1.59	SEG1
ATOM	2491	OD1	ASN	161	6.414	18.733	-7.812	1.00	2.33	SEG1
ATOM	2492	ND2	ASN	161	6.510	19.642	-5.831	1.00	1.73	SEG1
ATOM	2493	HD21	ASN	161	7.024	19.827	-5.017	1.00	1.70	SEG1
ATOM	2494	HD22	ASN	161	5.588	19.967	-5.913			

ENC1

ENC1

ATOM	2606	C	ARG	169	15.534	10.680	-24.477	1.00	10.92	SEG1
ATOM	2607	OT1	ARG	169	15.667	9.498	-24.206	1.00	11.30	SEG1
ATOM	2608	OT2	ARG	169	15.898	11.183	-25.528	1.00	11.23	SEG1
END										

FIG. 2 (35 of 35)

FIG. 2 (35 of 35)

Relative binding affinities of TRADD-N mutants with TF2-C

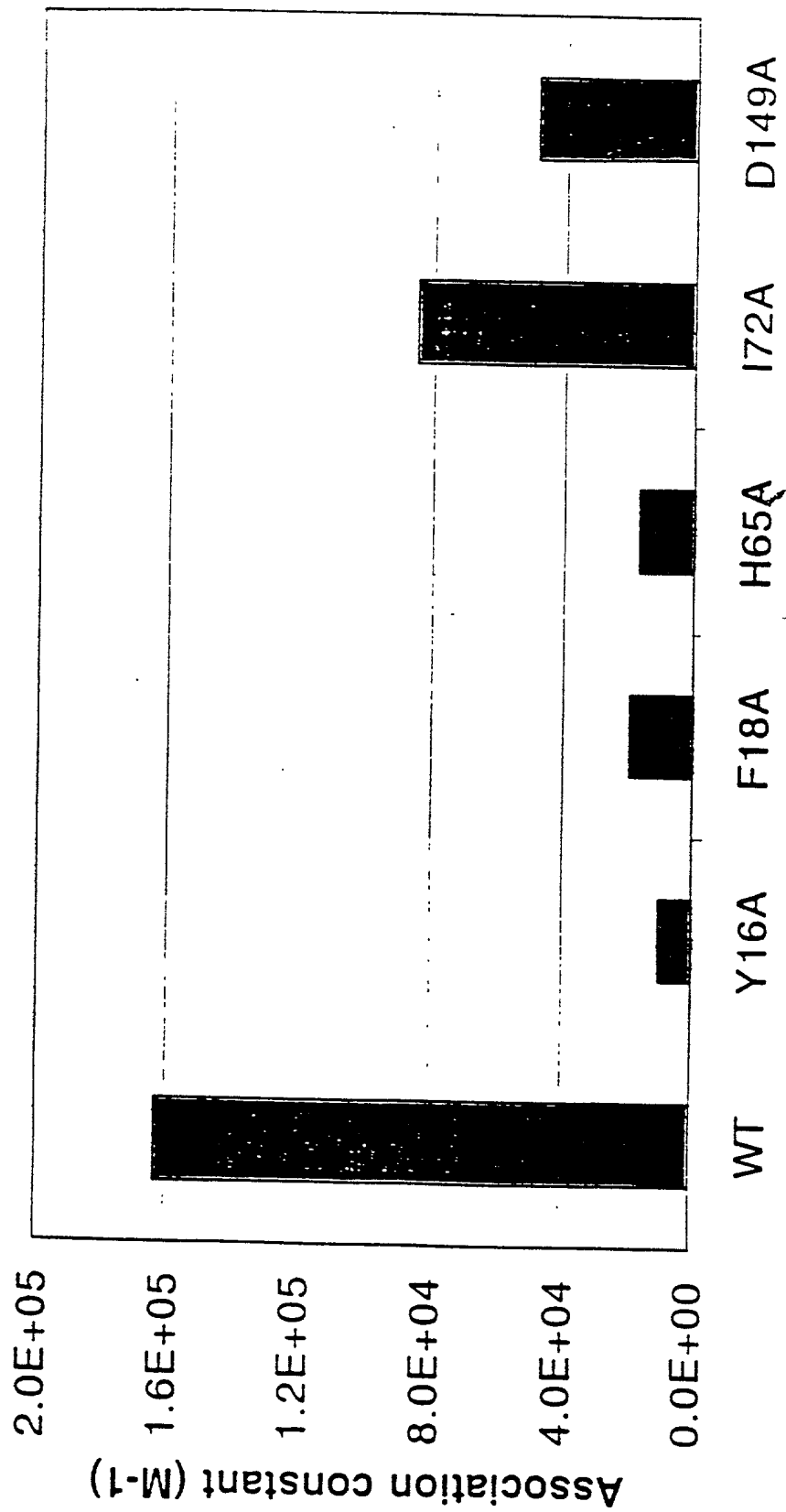


FIG. 3